

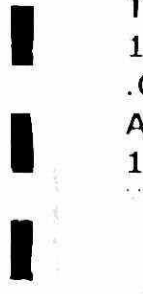
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**ACIDIC PRECIPITATION IN ONTARIO STUDY**

ISSN-084-880X

**ANNUAL STATISTICS OF  
CONCENTRATION AND DEPOSITION - CUMULATIVE  
PRECIPITATION MONITORING NETWORK, 1985**

ISSN-0830-162X

Atmospheric Processes Studies Unit  
Air Quality and Meteorology Section  
Ontario Ministry of the Environment  
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APRIL 1987 ,

ARB-006-87-AQM

APIOS-002-87

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### ACKNOWLEDGEMENTS

This report was prepared by Diane Green of the APIOS Atmospheric Deposition and Chemistry Program. However, the data themselves are a product of the combined efforts of many individuals. Precipitation samples were collected by a large number of site operators, whose names cannot be individually mentioned here, under the coordination of the APIOS environmental technicians Scott Kennedy (in Southwestern Region), Steve Elliott (in Southeastern Region), Wim Smits (in Northwestern Region), Jeff Columbus (Northeastern Region) and J.P. Varto (in Central Region). Sample handling was carried out by Dan Orr and Errol Butler, and overall network coordination by Bill Bardswick of the Air Resources Branch. Chemical analyses were performed at the Laboratory Services Branch under the coordination of Frank Tomassini and Barry Loescher. Invaluable clerical and computer assistance were provided by Koshy Mathew and William Chang respectively, of C.C and C. Computer Systems Inc. All enquiries regarding the reported data should be directed to Neville Reid, Coordinator, Atmospheric Deposition and Chemistry Program, at (416) 965-1634.

# TABLE OF CONTENTS

		<u>Page</u>
PART I	INTRODUCTION	III
PART II	STATION DESCRIPTION AND LOCATION MAP	IV
PART III	SUMMARY STATISTICS OF PRECIPITATION CONCENTRATION BY STATION	
	<u>Station</u>	<u>Map Ref. No.</u>
	Alvinston	05
	Azure Lake	26
	Bear Island	24
	Campbellford	13
	Cloyne	14
	Colchester	01
	Coldwater	12
	Dalhousie Mills	16
	Dorion	31
	Dorset	20
	Ear Falls	35
	Exp. Lakes Area	34
	Geraldton	30
	Golden Lake	17
	Gowganda	25
	Huron Park	06
	Killarney	23
	Lac La Croix	33
	Mattawa	22
	McKellar	21
	Merlin	02
	Moonbeam	27
	Moosonee	38
	Otter Island	38
	Palmerston	08
	Pickle Lake	36
	Port Stanley	03
	Quetico Centre	32
	Shallow Lake	09
	Smith's Falls	15
	Turkey Lake	37
	Uxbridge	11
	Waterloo	07
	Whitney	19
	Wilberforce	18
	Wilkesport	04
	Winisk	29
PART IV	SUMMARY STATISTICS OF PRECIPITATION CONCENTRATION BY REGION	
	Central Region	75
	Northeastern Region	77
	Northwestern Region	79
	Southeastern Region	81
	Southwestern Region	83

**PART V SUMMARY STATISTICS OF WET DEPOSITION  
BY STATION**

<u>Station</u>	<u>Map Ref. No.</u>	
Alvinston	05	85
Azure Lake	26	87
Bear Island	24	89
Campbellford	13	91
Cloyne	14	93
Colchester	01	95
Coldwater	12	97
Dalhousie Mills	16	99
Dorion	31	101
Dorset	20	103
Ear Falls	35	105
Exp. Lakes Area	34	107
Geraldton	30	109
Golden Lake	17	111
Gowganda	25	113
Huron Park	06	115
Killarney	23	117
Lac La Croix	33	119
Mattawa	22	121
McKellar	21	123
Merlin	02	125
Moonbeam	27	127
Moosonee	38	129
Otter Island	38	131
Palmerston	08	133
Pickle Lake	36	135
Port Stanley	03	137
Quetico Centre	32	139
Shallow Lake	09	141
Smith's Falls	15	143
Turkey Lake	37	145
Uxbridge	11	147
Waterloo	07	149
Whitney	19	151
Wilberforce	18	153
Wilkesport	04	155
Winisk	29	157

**PART VI SUMMARY STATISTICS OF WET DEPOSITION  
BY REGION**

Central Region	159
Northeastern Region	161
Northwestern Region	163
Southeastern Region	165
Southwestern Region	167

PART I

INTRODUCTION

## INTRODUCTION

This report was prepared by Diane Green. The statistical summaries presented in this report pertain to the 1985 analytical results obtained from the Acidic Precipitation in Ontario Study (APIOS) cumulative precipitation monitoring network. The relevant data can be obtained on request from the Air Resources Branch of The Ontario Ministry of the Environment. All available data are utilized in the calculations except results reported as being unreliable (i.e., results are identified as unreasonable values by using the validation procedures; detailed description of the validation procedures is available from the Ministry upon request) or approximate (i.e., inexact results are reported due to laboratory difficulties, such as may be encountered in calibration, or when the sample cannot be re-analyzed to confirm the reported value). In a very few cases, concentration levels exceeded the upper limit of the range of the chemical analysis. Rather than using the upper limit, a decision was made to exclude these values from the statistics generated in this report. Reported results for metals which have missing leachate analysis are also excluded from statistical analysis. Results labelled as  $< W$  are replaced by "zero".  $W$  is the level which the analytical technique cannot distinguish from zero. If a level is recorded less than the detection limit  $T$ , a value corresponding to one half the detection limit is utilized for statistical calculations as reported in the statistical summaries. Note that  $T$  is normally about ten times  $W$ , and values above the  $T$  criteria are considered to be precise and accurate.  $W$  corresponds to approximately one standard deviation of low level duplicates of real samples.

The reported cumulative precipitation gauge depth (or Environment Canada's CLIMAT result) is utilized in the calculation of deposition. If a precipitation gauge value is not available, then the collected sample volume is converted to its equivalent precipitation depth and is used in the deposition calculation.

The statistical summaries presented in Parts III to VI include number of samples, mean (arithmetic/geometric), standard deviation (arithmetic/geometric), maximum, minimum, quartiles and precipitation weighted means using precipitation gauge depths where appropriate. These statistics are for an average sampling period. Data which correspond to irregular sampling periods were either combined if they are from consecutive collection periods which span  $28d \pm 5d$ , or deleted, before the statistics are generated.

PART II

STATION DESCRIPTION AND LOCATION MAP

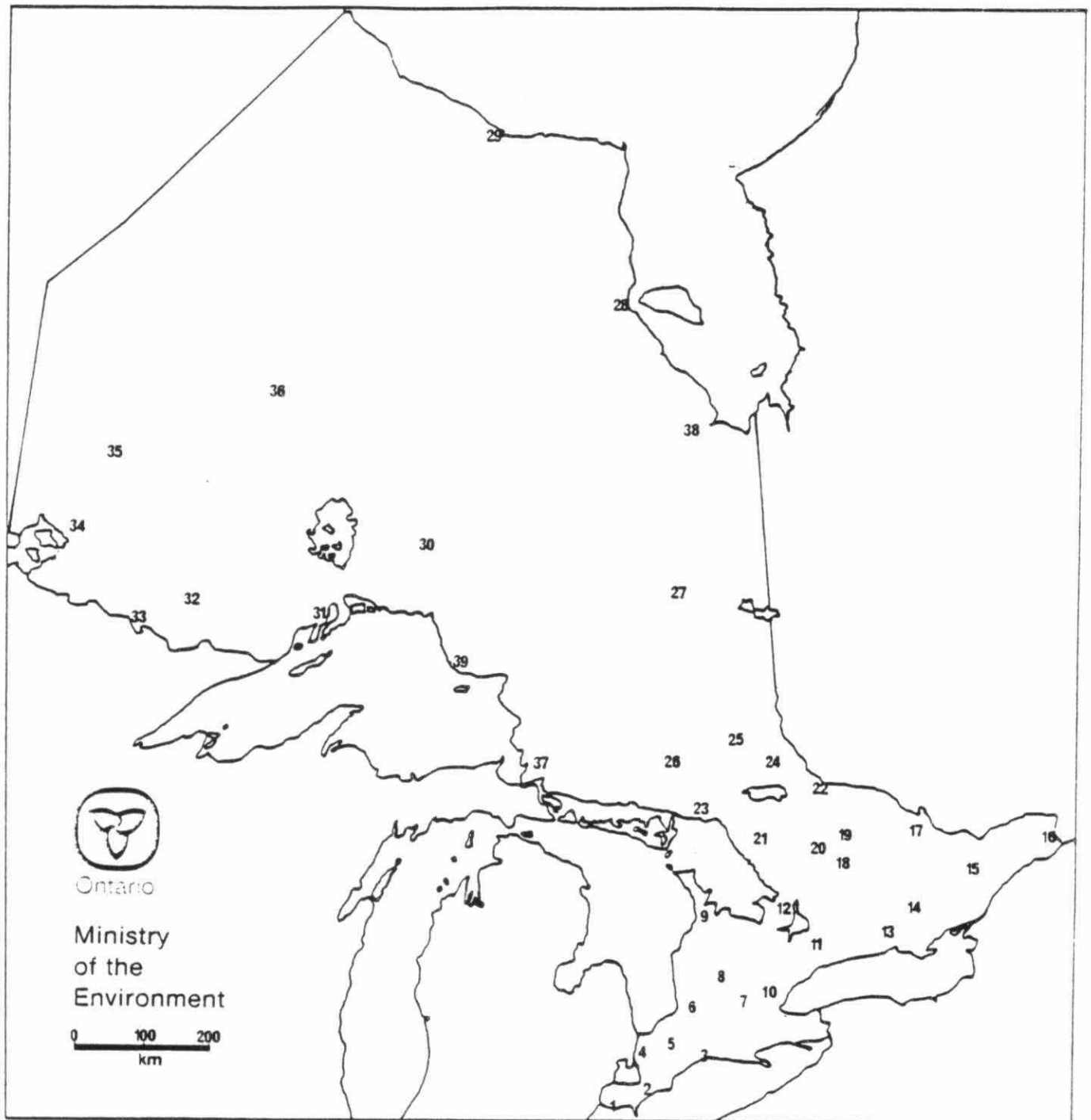
TABLE 1

## APIOS CUMULATIVE WET/DRY DEPOSITION NETWORK SITE DESCRIPTIONS

MOE REGION	STATION NAME	STATION NUMBER	INSTRUMENTATION	ELEVATION (m above MSL)	LATITUDE (North)	LONGITUDE (West)	UTM GRID CO-ORDINATES (Northing) (Easting)	
Southwestern	Colchester	1041	MIC/Low-Volume Air	183	41°59'15"	82°55'41"	4650000	340300
	Merlin	1051	MIC	191	42°14'47"	82°13'30"	4676400	398950
	Pt. Stanley	1061	MIC/Low-Volume Air	213	42°40'22"	81°09'55"	4724050	486700
	Wilkesport	1071	MIC/Low-Volume Air	183	42°42'11"	82°21'13"	4728350	389150
	Alvinston	1081	MIC	221	42°49'36"	81°50'04"	4942000	431550
	Shallow Lake	1091	MIC/Low-Volume Air	229	44°34'54"	81°05'24"	4936200	492850
	Palmerston	1101	MIC/Low-Volume Air	389	43°48'19"	80°54'12"	4850050	507750
	Huron Park	1191	MIC	250	43°17'28"	81°30'03"	4793000	459350
	Waterloo	2021	MIC	343	43°28'39"	80°35'09"	4813750	533500
	Dorset	3011	MIC/Low-Volume Air	320	45°13'26"	78°55'52"	5009650	662400
Central	Milton	3051	MIC	221	43°31'05"	79°55'54"	4818600	586350
	Uxbridge	3061	MIC/Low-Volume Air	244	44°12'46"	79°12'38"	4896800	643000
	Wilberforce	3071	MIC	396	45°00'54"	78°12'58"	4988150	719400
	Campbellford	3081	MIC/Low-Volume Air	175	44°17'28"	77°47'33"	4907600	277150
	Coldwater	3101	MIC	280	44°37'31"	79°32'08"	4942200	615900
Southeastern	Kaladar	4051	MIC/Low-Volume Air	244	44°41'31"	77°09'18"	4950800	329250
	Smith's Falls	4061	MIC/Low-Volume Air	122	44°56'41"	75°57'48"	4977100	423950
	Dalhousie Mills	4071	MIC/Low-Volume Air	69	45°19'00"	74°28'13"	5018100	541550
	Golden Lake	4081	MIC/Low-Volume Air	160	45°36'48"	77°12'03"	5053200	328400
	Cloyne	4091	MIC/Low-Volume Air	259	44°49'09"	77°11'45"	4964750	327100
Northeastern	McKellar	5011	MIC/Low-Volume Air	244	45°30'57"	79°55'19"	5040600	583950
	Killarney	5021	MIC/Low-Volume Air	183	45°59'26"	81°29'18"	5092900	462200
	Mattawa	5031	MIC/Low-Volume Air	198	46°16'45"	78°49'19"	5127150	667800
	Bear Island	5041	MIC	305	46°58'22"	80°04'40"	5202400	570350
	Ramsey	5051	MIC	427	47°26'33"	82°20'14"	5254900	399200
	Gowganda	5061	MIC/Low-Volume Air	343	47°39'04"	80°46'32"	5277300	516600
	Moonbeam	5071	MIC/Low-Volume Air	244	49°19'16"	82°08'46"	5463600	416650
	Attawapiskat	5081	MIC/Low-Volume Air	9	52°56'00"	82°24'00"	NA	NA
	Whitney	5091	MIC	412	45°32'21"	78°15'35"	5045950	713950
	Turkey Lake	5141	MIC/Low-Volume Air	472	47°03'15"	84°24'00"	5214250	696750
	Azure Lake	5151	MIC	244	47°28'12"	81°52'30"	5257650	434250
	Moosonee	5161	MIC/Low-Volume Air	8	51°12'34"	80°42'20"	5673000	520550
Northwestern	Dorion	6011	MIC/Low-Volume Air	244	48°50'33"	88°36'45"	5410800	382150
	Nakina	6021	MIC/Low-Volume Air	320	50°10'38"	86°42'90"	5558150	520950
	Ear Falls	6031	MIC/Low-Volume Air	350	50°38'31"	93°13'13"	5609800	484150
	Pickle Lake	6041	MIC/Low-Volume Air	360	51°27'41"	90°12'04"	5704800	694550
	Lac la Croix	6061	MIC	368	48°21'14"	92°12'32"	5355900	558400
	Quetico Centre	6071	MIC/Low-Volume Air	420	48°44'24"	91°12'08"	5399750	632100
	E.L.A.	6091	MIC	123	49°39'22"	93°43'28"	5500950	447350
	Winisk	6101	MIC	9	55°12'00"	85°08'00"	NA	NA
	Otter Island	6111	MIC/Low-Volume Air	204	48°06'50"	86°04'25"	5328750	569500
	Geraldton	6121	MIC/Low-Volume Air	351	49°48'05"	86°46'00"	5516300	516750

FIGURE 1

LOCATION OF APIOS CUMULATIVE WET/DRY DEPOSITION NETWORK SITES



- |                                 |                               |                                 |
|---------------------------------|-------------------------------|---------------------------------|
| 1. Colchester*                  | 15. Smith's Falls*            | 29. Winisk                      |
| 2. Merlin                       | 16. Dalhousie Mills*          | 30. Geraldton*                  |
| 3. Pt. Stanley*                 | 17. Golden Lake*              | (replacing Nakina, August 1983) |
| 4. Wilkesport*                  | 18. Wilberforce               | 31. Dorion*                     |
| 5. Alvinston                    | 19. Whitney                   | 32. Quetico Centre*             |
| 6. Huron Park                   | 20. Dorset*                   | 33. Lac la Croix                |
| 7. Waterloo                     | 21. McKellar*                 | 34. Experimental Lakes Area     |
| 8. Palmerston*                  | 22. Mattawa*                  | 35. Ear Falls*                  |
| 9. Shallow Lake*                | 23. Killarney*                | 36. Pickle Lake*                |
| 10. Milton (removed March 1984) | 24. Bear Island               | 37. Turkey Lake*                |
| 11. Uxbridge*                   | 25. Gowganda*                 | 38. Moosonee*                   |
| 12. Coldwater                   | 26. Azure Lake                | (installed October, 1985)       |
| 13. Campbellford*               | (replacing Ramsey, June 1983) | 39. Otter Island*               |
| 14. Cloyne*                     | 27. Moonbeam*                 | (operated only during "summer"  |
| (replacing Kaladar, June 1983)  | 28. Attawapiskat              | periods)                        |
|                                 | (removed February 1984)       |                                 |

\* indicates both a dry and wet deposition network site



PART III

SUMMARY STATISTICS OF PRECIPITATION CONCENTRATION BY STATION

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
-----

STATION NAME : ALVINSTON/CUMULATIVE PRECIP. #05

PERIOD OF REPORT : JAN 2,85 TO DEC 31,85

PAGE : 1

	PRECIP.	CONDUCT.	PH	FREE H+	TOTAL H+	SULPHATE	NITRATE
	MM	UMHO/CM	LAB	LAB	GRAM	MG/L	AS N
				MG/L	MG/L		MG/L
# OF SAMPLES :	11	11	11	11	11	11	11
MAXIMUM :	161.0	53.8	4.60	0.0851	0.1170	6.85	0.990
MINIMUM :	19.0	16.5	4.07	0.0251	0.0492	1.25	0.290
RANGE :	142.0	37.3	0.53	0.0600	0.0678	5.60	0.700
ARITH. MEAN :	69.3	34.4	4.31	0.0536	0.0834	3.59	0.609
ARITH. STD. DEV :	44.6	12.3	0.21	0.0224	0.0250	1.74	0.214
GEOM. MEAN :	57.0	32.3	4.31	0.0488	0.0797	3.19	0.574
GEOM. STD. DEV. :	2.0	1.5	1.05	1.6082	1.3862	1.69	1.442
1ST QUARTILE :	27.5	20.9	4.11	0.0270	0.0530	1.97	0.420
2ND QUARTILE :	57.0	36.7	4.21	0.0563	0.0881	3.20	0.560
3RD QUARTILE :	88.5	39.8	4.52	0.0693	0.1001	4.40	0.730
VOL. WGT. MEAN :	*****	31.5	*****	0.0500	0.0782	3.25	0.526

	CALCIUM	CHLORIDE	KJELDAHL	MAGNESIM	POTASSIM	SODIUM	AMMONIUM
	MG/L	MG/L	AS N	MG/L	MG/L	MG/L	AS N
			MG/L				MG/L
# OF SAMPLES :	11	11	11	11	11	11	11
MAXIMUM :	1.010	0.400	1.200	0.190	0.285	0.140	0.950
MINIMUM :	0.200	0.090	0.190	0.045	0.005	0.030	0.095
RANGE :	0.810	0.310	1.010	0.145	0.280	0.110	0.855
ARITH. MEAN :	0.543	0.211	0.477	0.089	0.080	0.073	0.395
ARITH. STD. DEV :	0.275	0.119	0.271	0.050	0.083	0.044	0.244
GEOM. MEAN :	0.480	0.182	0.425	0.079	0.046	0.060	0.328
GEOM. STD. DEV. :	1.702	1.775	1.625	1.620	3.307	1.924	1.948
1ST QUARTILE :	0.275	0.100	0.285	0.050	0.017	0.030	0.170
2ND QUARTILE :	0.440	0.155	0.420	0.070	0.050	0.045	0.350
3RD QUARTILE :	0.720	0.315	0.535	0.092	0.108	0.113	0.527
VOL. WGT. MEAN :	0.485	0.166	0.400	0.073	0.084	0.056	0.318

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
-----

STATION NAME : ALVINSTON/CUMULATIVE PRECIP.

#05

PERIOD OF REPORT : JAN 2,85 TO DEC 31,85

PAGE : 2

	PHOSPHOR	MANGANESE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	11	11	11	11	11	11	11
MAXIMUM :	0.0240	17.00	1.50	13.90	300.30	18.47	0.70
MINIMUM :	0.0010	2.00	0.10	1.49	16.71	0.62	0.20
RANGE :	0.0230	15.00	1.40	12.41	283.59	17.85	0.50
ARITH. MEAN :	0.0067	5.55	0.61	8.36	84.36	6.40	0.30
ARITH. STD. DEV. :	0.0072	4.13	0.39	3.94	77.93	5.01	0.18
GEOM. MEAN :	0.0043	4.68	0.49	7.21	62.68	4.72	0.26
GEOM. STD. DEV. :	2.6728	1.76	2.15	1.91	2.22	2.46	1.63
1ST QUARTILE :	0.0020	3.00	0.25	4.74	29.66	2.81	0.20
2ND QUARTILE :	0.0027	4.00	0.50	7.78	73.07	4.36	0.20
3RD QUARTILE :	0.0075	5.50	0.80	10.92	84.82	8.50	0.30
VOL. WGT. MEAN :	0.0047	4.36	0.58	6.71	59.93	4.49	0.26

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES :	11	11	11
MAXIMUM :	352.30	2.32	1.36
MINIMUM :	20.72	0.42	0.01
RANGE :	331.58	1.90	1.35
ARITH. MEAN :	90.72	1.30	0.35
ARITH. STD. DEV. :	92.95	0.65	0.47
GEOM. MEAN :	65.04	1.14	0.14
GEOM. STD. DEV. :	2.27	1.74	4.50
1ST QUARTILE :	27.60	0.64	0.04
2ND QUARTILE :	67.94	1.22	0.11
3RD QUARTILE :	102.10	1.65	0.41
VOL. WGT. MEAN :	62.08	1.01	0.36

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
-----

STATION NAME : AZURE LAKE/CUMULATIVE PRECIP.

#26

PERIOD OF REPORT : JAN 29,85 TO JAN 2,86

PAGE : 1

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	12	12	12	12	12	12	12
MAXIMUM :	109.0	46.6	4.66	0.1023	0.1220	4.55	0.520
MINIMUM :	44.7	12.7	3.99	0.0219	0.0455	0.80	0.180
RANGE :	64.3	33.9	0.67	0.0805	0.0765	3.75	0.340
ARITH. MEAN :	68.1	22.2	4.44	0.0405	0.0646	1.96	0.329
ARITH. STD. DEV :	20.5	9.2	0.19	0.0222	0.0208	1.08	0.115
GEOM. MEAN :	65.6	20.9	4.43	0.0367	0.0622	1.72	0.311
GEOM. STD. DEV. :	1.3	1.4	1.04	1.5466	1.3052	1.71	1.420
1ST QUARTILE :	52.5	18.1	4.38	0.0274	0.0540	0.97	0.240
2ND QUARTILE :	67.0	19.6	4.45	0.0355	0.0574	1.93	0.305
3RD QUARTILE :	72.0	21.3	4.56	0.0422	0.0655	2.20	0.425
VOL. WGT. MEAN :	*****	21.5	*****	0.0388	0.0631	1.92	0.320

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	12	12	12	12	12	12	12
MAXIMUM :	0.230	0.230	0.500	0.035	0.065	0.160	0.360
MINIMUM :	0.000	0.010	0.030	0.002	0.000	0.002	0.000
RANGE :	0.230	0.220	0.470	0.032	0.065	0.158	0.360
ARITH. MEAN :	0.139	0.082	0.275	0.022	0.025	0.030	0.179
ARITH. STD. DEV :	0.074	0.061	0.157	0.012	0.023	0.045	0.119
GEOM. MEAN :	0.161	0.059	0.217	0.017	0.022	0.015	0.185
GEOM. STD. DEV. :	1.719	2.586	2.299	2.656	3.782	3.082	2.061
1ST QUARTILE :	0.095	0.027	0.125	0.014	0.002	0.008	0.082
2ND QUARTILE :	0.135	0.090	0.320	0.025	0.025	0.010	0.192
3RD QUARTILE :	0.205	0.105	0.405	0.030	0.045	0.027	0.287
VOL. WGT. MEAN :	0.138	0.074	0.280	0.022	0.024	0.026	0.186

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
-----

STATION NAME : AZURE LAKE/CUMULATIVE PRECIP.

#26

PERIOD OF REPORT : JAN 29,85 TO JAN 2,86

PAGE : 2

	PHOSPHOR	MANGANSE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	12	12	12	12	12	12	12
MAXIMUM :	0.0240	14.00	2.00	10.88	120.90	9.78	0.40
MINIMUM :	0.0010	0.50	0.10	1.21	5.73	1.21	0.20
RANGE :	0.0230	13.50	1.90	9.67	115.17	8.57	0.20
ARITH. MEAN :	0.0078	2.79	0.52	4.48	36.66	5.25	0.23
ARITH. STD. DEV :	0.0068	3.71	0.49	2.73	31.99	2.84	0.08
GEOM. MEAN :	0.0052	1.68	0.40	3.75	26.18	4.33	0.22
GEOM. STD. DEV. :	2.7590	2.71	2.02	1.91	2.45	2.04	1.31
1ST QUARTILE :	0.0022	0.75	0.30	2.56	13.07	2.88	0.20
2ND QUARTILE :	0.0070	2.00	0.40	4.24	32.74	5.33	0.20
3RD QUARTILE :	0.0110	3.00	0.50	5.83	40.34	7.54	0.20
VOL. WGT. MEAN :	0.0074	2.66	0.49	4.28	34.09	4.98	0.23

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES :	12	12	12
MAXIMUM :	119.20	4.70	0.15
MINIMUM :	10.73	0.17	0.04
RANGE :	108.47	4.53	0.11
ARITH. MEAN :	38.13	1.67	0.07
ARITH. STD. DEV :	28.34	1.29	0.03
GEOM. MEAN :	31.25	1.24	0.06
GEOM. STD. DEV. :	1.92	2.44	1.41
1ST QUARTILE :	21.35	0.85	0.05
2ND QUARTILE :	34.56	1.31	0.06
3RD QUARTILE :	42.35	2.06	0.07
VOL. WGT. MEAN :	35.64	1.57	0.07

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
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STATION NAME : BEAR ISLAND/CUMULATIVE PRECIP.

#24

PERIOD OF REPORT : JAN 2,85 TO OCT 8,85

PAGE : 1

	PRECIP.	CONDUCT.	PH	FREE H+	TOTAL H+	SULPHATE	NITRATE
	MM	UMHO/CM	LAB	LAB	GRAN	MG/L	AS N
				MG/L	MG/L		MG/L
# OF SAMPLES :	7	6	7	7	6	6	6
MAXIMUM :	95.0	36.2	4.38	0.0646	0.0805	5.00	0.710
MINIMUM :	18.0	21.3	4.19	0.0417	0.0585	0.85	0.290
RANGE :	77.0	14.9	0.19	0.0229	0.0220	4.15	0.420
ARITH. MEAN :	52.6	27.0	4.33	0.0468	0.0722	2.74	0.493
ARITH. STD. DEV :	28.6	5.8	0.07	0.0081	0.0086	1.62	0.151
GEOM. MEAN :	45.2	26.5	4.33	0.0463	0.0718	2.30	0.473
GEOM. STD. DEV. :	1.9	1.2	1.02	1.1649	1.1320	1.99	1.379
1ST QUARTILE :	22.6	22.0	4.25	0.0422	0.0629	1.05	0.345
2ND QUARTILE :	43.5	26.1	4.36	0.0437	0.0732	2.57	0.490
3RD QUARTILE :	70.5	29.6	4.36	0.0458	0.0785	3.47	0.570
VOL. WGT. MEAN :	*****	26.9	*****	0.0488	0.0719	2.73	0.476
	CALCIUM	CHLORIDE	KJELDAHL	MAGNESIM	POTASSIM	SODIUM	AMMONIUM
	MG/L	MG/L	AS N	MG/L	MG/L	MG/L	AS N
			MG/L				MG/L
# OF SAMPLES :	5	6	6	6	5	6	7
MAXIMUM :	0.280	0.230	1.260	0.165	0.155	0.080	2.800
MINIMUM :	0.005	0.060	0.110	0.005	0.015	0.030	0.070
RANGE :	0.275	0.170	1.150	0.160	0.140	0.050	2.730
ARITH. MEAN :	0.145	0.152	0.502	0.050	0.077	0.060	0.644
ARITH. STD. DEV :	0.107	0.062	0.425	0.060	0.056	0.018	0.978
GEOM. MEAN :	0.082	0.139	0.358	0.026	0.057	0.057	0.304
GEOM. STD. DEV. :	5.051	1.628	2.574	3.674	2.604	1.427	3.506
1ST QUARTILE :	0.053	0.085	0.120	0.006	0.023	0.040	0.090
2ND QUARTILE :	0.110	0.155	0.465	0.030	0.060	0.065	0.210
3RD QUARTILE :	0.170	0.185	0.580	0.047	0.092	0.070	0.555
VOL. WGT. MEAN :	0.132	0.143	0.541	0.043	0.081	0.061	0.964

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
-----

STATION NAME : BEAR ISLAND/CUMULATIVE PRECIP. #24

PERIOD OF REPORT : JAN 2,85 TO OCT 8,85

PAGE : 2

	PHOSPHOR	MANGANESE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	6	5	6	6	6	6	6
MAXIMUM :	0.1360	6.00	2.30	26.47	103.30	20.71	0.70
MINIMUM :	0.0010	1.00	0.40	4.64	10.58	1.44	0.20
RANGE :	0.1350	5.00	1.90	21.83	92.72	19.27	0.50
ARITH. MEAN :	0.0423	3.00	0.95	11.22	55.29	8.22	0.32
ARITH. STD. DEV. :	0.0517	2.00	0.73	8.57	37.99	7.07	0.20
GEOM. MEAN :	0.0148	2.49	0.77	9.01	43.07	5.95	0.28
GEOM. STD. DEV. :	7.0005	2.00	1.97	2.03	2.32	2.50	1.70
1ST QUARTILE :	0.0015	1.50	0.40	4.85	21.77	2.86	0.20
2ND QUARTILE :	0.0240	2.00	0.70	7.84	42.23	5.34	0.20
3RD QUARTILE :	0.0455	3.00	1.00	12.89	73.53	8.84	0.30
VOL. WGT. MEAN :	0.0385	3.00	0.77	10.25	50.23	7.28	0.27

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES :	6	6	6
MAXIMUM :	99.95	3.09	0.15
MINIMUM :	21.49	0.48	0.11
RANGE :	78.46	2.62	0.04
ARITH. MEAN :	50.67	1.89	0.13
ARITH. STD. DEV. :	26.53	1.07	0.02
GEOM. MEAN :	45.62	1.56	0.13
GEOM. STD. DEV. :	1.65	2.08	1.13
1ST QUARTILE :	29.49	0.71	0.11
2ND QUARTILE :	46.42	1.94	0.13
3RD QUARTILE :	51.21	2.64	0.13
VOL. WGT. MEAN :	52.41	1.81	0.13

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
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STATION NAME : CAMPBELLFORD/CUMULATIVE PRECIP. #13

PERIOD OF REPORT : JAN 2,85 TO DEC 31,85

PAGE : 1

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	11	10	10	10	10	10	10
MAXIMUM :	165.0	64.7	4.80	0.1122	0.1470	9.00	1.190
MINIMUM :	20.0	18.6	3.95	0.0158	0.0573	1.55	0.270
RANGE :	145.0	46.1	0.85	0.0964	0.0897	7.45	0.920
ARITH. MEAN :	68.8	37.9	4.33	0.0554	0.0922	4.25	0.779
ARITH. STD. DEV :	45.5	15.7	0.28	0.0311	0.0310	2.39	0.310
GEOM. MEAN :	56.0	35.2	4.32	0.0468	0.0878	3.65	0.709
GEOM. STD. DEV. :	2.0	1.5	1.07	1.9121	1.3853	1.82	1.634
1ST QUARTILE :	28.0	24.5	4.09	0.0259	0.0647	1.93	0.445
2ND QUARTILE :	55.3	35.8	4.30	0.0507	0.0902	4.45	0.825
3RD QUARTILE :	84.0	41.4	4.45	0.0751	0.1015	5.25	0.945
VOL. WGT. MEAN :	*****	31.5	*****	0.0414	0.0788	3.86	0.628

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	9	10	10	10	10	10	10
MAXIMUM :	1.160	0.460	1.350	0.185	0.235	0.310	0.905
MINIMUM :	0.170	0.025	0.160	0.008	0.000	0.002	0.095
RANGE :	0.990	0.435	1.190	0.177	0.235	0.308	0.810
ARITH. MEAN :	0.656	0.237	0.789	0.080	0.067	0.085	0.543
ARITH. STD. DEV :	0.399	0.124	0.429	0.062	0.069	0.086	0.321
GEOM. MEAN :	0.527	0.193	0.646	0.054	0.063	0.052	0.425
GEOM. STD. DEV. :	2.111	2.275	2.102	2.886	3.403	3.518	2.287
1ST QUARTILE :	0.260	0.130	0.285	0.020	0.016	0.032	0.192
2ND QUARTILE :	0.535	0.245	0.845	0.077	0.050	0.060	0.680
3RD QUARTILE :	0.960	0.285	1.050	0.100	0.065	0.090	0.805
VOL. WGT. MEAN :	0.663	0.186	0.769	0.064	0.088	0.059	0.548

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH



ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
-----

STATION NAME : CAMPBELLFORD/CUMULATIVE PRECIP. #13

PERIOD OF REPORT : JAN 2,85 TO DEC 31,85

PAGE : 2

	PHOSPHOR	MANGANSE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	10	9	9	9	9	9	9
MAXIMUM :	0.0850	21.00	0.80	11.57	293.80	28.42	0.60
MINIMUM :	0.0025	1.00	0.10	2.93	12.22	2.23	0.20
RANGE :	0.0825	20.00	0.70	8.64	281.58	26.19	0.40
ARITH. MEAN :	0.0237	7.33	0.43	7.53	101.22	8.96	0.28
ARITH. STD. DEV :	0.0263	6.32	0.28	3.51	88.80	7.86	0.16
GEOM. MEAN :	0.0140	4.80	0.34	6.69	66.48	6.92	0.25
GEOM. STD. DEV. :	2.9768	2.96	2.28	1.72	2.93	2.10	1.56
1ST QUARTILE :	0.0070	1.50	0.15	3.84	27.01	3.83	0.20
2ND QUARTILE :	0.0095	6.50	0.35	6.87	72.33	6.96	0.20
3RD QUARTILE :	0.0310	8.00	0.60	10.14	121.55	8.44	0.20
VOL. WGT. MEAN :	0.0327	6.33	0.47	7.39	74.22	6.46	0.25

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES :	9	9	9
MAXIMUM :	558.90	3.13	0.41
MINIMUM :	16.12	0.34	0.05
RANGE :	542.78	2.80	0.36
ARITH. MEAN :	126.37	1.13	0.19
ARITH. STD. DEV :	170.98	0.95	0.14
GEOM. MEAN :	68.56	0.84	0.15
GEOM. STD. DEV. :	3.14	2.27	2.08
1ST QUARTILE :	25.64	0.39	0.09
2ND QUARTILE :	62.96	0.61	0.11
3RD QUARTILE :	100.14	1.42	0.22
VOL. WGT. MEAN :	87.12	0.91	0.18

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
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STATION NAME : CLOYNE/CUMULATIVE PRECIP.

#14

PERIOD OF REPORT : JAN 2,85 TO DEC 31,85

PAGE : 1

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	13	13	13	13	13	13	13
MAXIMUM :	150.0	50.6	4.74	0.0912	0.1180	5.70	1.260
MINIMUM :	22.0	18.3	4.04	0.0182	0.0423	1.35	0.280
RANGE :	128.0	32.3	0.70	0.0730	0.0757	4.35	0.980
ARITH. MEAN :	72.0	32.8	4.28	0.0569	0.0851	2.87	0.591
ARITH. STD. DEV. :	33.3	10.4	0.20	0.0215	0.0241	1.41	0.276
GEOM. MEAN :	64.9	31.2	4.28	0.0524	0.0816	2.58	0.539
GEOM. STD. DEV. :	1.6	1.4	1.05	1.5773	1.3676	1.63	1.553
1ST QUARTILE :	48.0	22.3	4.14	0.0394	0.0653	1.73	0.395
2ND QUARTILE :	63.5	31.2	4.18	0.0579	0.0867	2.40	0.485
3RD QUARTILE :	85.5	39.0	4.36	0.0684	0.0944	3.45	0.690
VOL. WGT. MEAN :	*****	30.6	*****	0.0535	0.0814	2.75	0.500
	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	13	13	13	13	13	13	13
MAXIMUM :	1.070	0.290	0.850	0.085	0.055	0.165	0.755
MINIMUM :	0.020	0.020	0.180	0.002	0.000	0.008	0.110
RANGE :	1.050	0.270	0.670	0.082	0.055	0.157	0.645
ARITH. MEAN :	0.283	0.132	0.392	0.033	0.028	0.052	0.311
ARITH. STD. DEV. :	0.297	0.075	0.228	0.027	0.020	0.048	0.209
GEOM. MEAN :	0.174	0.110	0.341	0.022	0.027	0.033	0.260
GEOM. STD. DEV. :	2.933	1.971	1.699	2.917	3.153	2.765	1.829
1ST QUARTILE :	0.085	0.085	0.215	0.011	0.004	0.015	0.163
2ND QUARTILE :	0.165	0.095	0.290	0.025	0.030	0.027	0.230
3RD QUARTILE :	0.275	0.165	0.415	0.040	0.040	0.065	0.330
VOL. WGT. MEAN :	0.223	0.113	0.338	0.027	0.022	0.043	0.278

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
-----

STATION NAME : CLOYNE/CUMULATIVE PRECIP.

#14

PERIOD OF REPORT : JAN 2,85 TO DEC 31,85

PAGE : 2

	PHOSPHOR	MANGANSE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	13	12	12	12	12	12	12
MAXIMUM :	0.0260	16.00	1.00	10.38	256.70	12.76	0.20
MINIMUM :	0.0005	0.50	0.10	2.42	7.58	2.18	0.20
RANGE :	0.0255	15.50	0.90	7.96	249.12	10.58	0.00
ARITH. MEAN :	0.0065	3.21	0.37	4.96	50.50	4.58	0.20
ARITH. STD. DEV :	0.0082	4.23	0.33	2.61	67.26	3.17	0.00
GEOM. MEAN :	0.0030	2.00	0.26	4.43	32.31	3.90	0.20
GEOM. STD. DEV. :	3.7859	2.55	2.43	1.63	2.45	1.73	1.00
1ST QUARTILE :	0.0010	1.00	0.10	3.20	18.78	2.54	0.20
2ND QUARTILE :	0.0025	2.00	0.25	3.89	32.57	3.35	0.20
3RD QUARTILE :	0.0070	4.00	0.60	6.50	50.32	5.38	0.20
VOL. WGT. MEAN :	0.0043	2.67	0.41	4.41	41.93	4.27	0.20
	ALUMINUM	COPPER	CADMIUM				
	UG/L	UG/L	UG/L				
# OF SAMPLES :	12	12	12				
MAXIMUM :	235.00	1.68	0.12				
MINIMUM :	12.07	0.14	0.01				
RANGE :	222.93	1.53	0.11				
ARITH. MEAN :	49.33	0.81	0.06				
ARITH. STD. DEV :	60.76	0.40	0.04				
GEOM. MEAN :	33.98	0.69	0.05				
GEOM. STD. DEV. :	2.22	1.93	2.17				
1ST QUARTILE :	22.03	0.66	0.02				
2ND QUARTILE :	28.33	0.79	0.05				
3RD QUARTILE :	52.49	1.00	0.09				
VOL. WGT. MEAN :	41.12	0.79	0.06				

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
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STATION NAME : COLCHESTER/CUMULATIVE PRECIP.

#01

PERIOD OF REPORT : JAN 1,85 TO DEC 31,85

PAGE : 1

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	13	13	13	13	13	13	13
MAXIMUM :	230.3	50.1	4.71	0.0832	0.1170	6.65	0.970
MINIMUM :	16.0	17.9	4.08	0.0195	0.0429	1.55	0.170
RANGE :	214.3	32.2	0.63	0.0637	0.0741	5.10	0.800
ARITH. MEAN :	84.6	35.2	4.30	0.0553	0.0853	3.96	0.577
ARITH. STD. DEV :	56.2	10.3	0.21	0.0220	0.0236	1.66	0.204
GEOM. MEAN :	68.2	33.5	4.29	0.0504	0.0817	3.61	0.535
GEOM. STD. DEV. :	2.1	1.4	1.05	1.6183	1.3730	1.59	1.561
1ST QUARTILE :	35.5	26.9	4.13	0.0318	0.0619	2.38	0.480
2ND QUARTILE :	71.5	37.2	4.20	0.0558	0.0887	3.88	0.560
3RD QUARTILE :	107.5	40.0	4.38	0.0724	0.1020	4.88	0.685
VOL. WGT. MEAN :	*****	34.9	*****	0.0528	0.0831	4.14	0.552

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	12	13	12	12	12	12	13
MAXIMUM :	0.990	0.590	1.820	0.280	0.195	0.230	1.480
MINIMUM :	0.190	0.120	0.250	0.030	0.000	0.035	0.125
RANGE :	0.800	0.470	1.570	0.250	0.195	0.195	1.355
ARITH. MEAN :	0.467	0.282	0.742	0.108	0.072	0.099	0.508
ARITH. STD. DEV :	0.268	0.129	0.469	0.076	0.058	0.054	0.383
GEOM. MEAN :	0.407	0.259	0.631	0.088	0.080	0.087	0.402
GEOM. STD. DEV. :	1.705	1.535	1.800	1.940	1.964	1.719	2.046
1ST QUARTILE :	0.270	0.195	0.415	0.060	0.032	0.055	0.210
2ND QUARTILE :	0.380	0.240	0.590	0.085	0.047	0.095	0.402
3RD QUARTILE :	0.620	0.295	0.985	0.127	0.100	0.130	0.557
VOL. WGT. MEAN :	0.432	0.263	0.870	0.089	0.084	0.088	0.614

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

- 11 -

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
-----

STATION NAME : COLCHESTER/CUMULATIVE PRECIP. #01

PERIOD OF REPORT : JAN 1,85 TO DEC 31,85

PAGE : 2

	PHOSPHOR	MANGANESE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	12	13	13	13	13	13	13
MAXIMUM :	0.1420	12.00	2.60	24.49	266.50	10.36	0.60
MINIMUM :	0.0015	1.00	0.20	4.32	15.18	0.72	0.20
RANGE :	0.1405	11.00	2.40	20.17	251.32	9.64	0.40
ARITH. MEAN :	0.0230	4.08	0.85	11.45	76.51	5.68	0.30
ARITH. STD. DEV :	0.0398	2.84	0.75	5.24	72.07	3.21	0.14
GEOM. MEAN :	0.0084	3.30	0.61	10.43	54.47	4.59	0.27
GEOM. STD. DEV. :	4.2637	2.01	2.37	1.58	2.34	2.17	1.53
1ST QUARTILE :	0.0022	2.00	0.30	7.44	28.55	2.74	0.20
2ND QUARTILE :	0.0065	4.00	0.45	10.15	52.08	5.68	0.20
3RD QUARTILE :	0.0270	4.50	1.20	13.34	73.45	6.85	0.40
VOL. WGT. MEAN :	0.0374	3.37	1.05	10.60	55.34	4.98	0.27

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES :	13	12	13
MAXIMUM :	308.10	5.57	0.46
MINIMUM :	20.88	0.22	0.01
RANGE :	287.22	5.36	0.45
ARITH. MEAN :	87.90	1.61	0.14
ARITH. STD. DEV :	82.31	1.59	0.12
GEOM. MEAN :	63.79	1.08	0.10
GEOM. STD. DEV. :	2.23	2.58	2.53
1ST QUARTILE :	36.17	0.54	0.07
2ND QUARTILE :	46.74	1.04	0.09
3RD QUARTILE :	82.29	2.18	0.12
VOL. WGT. MEAN :	67.90	1.98	0.13

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : COLDWATER/CUMULATIVE PRECIP.

#12

PERIOD OF REPORT : DEC 31,84 TO JAN 3,86

PAGE : 1

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	13	13	13	13	13	13	13
MAXIMUM :	243.0	33.0	5.10	0.0537	0.0787	4.15	0.810
MINIMUM :	29.0	6.1	4.27	0.0079	0.0277	0.35	0.090
RANGE :	214.0	26.9	0.83	0.0458	0.0510	3.80	0.720
ARITH. MEAN :	84.2	24.0	4.49	0.0360	0.0623	2.63	0.474
ARITH. STD. DEV :	54.6	8.0	0.24	0.0142	0.0163	1.36	0.196
GEOM. MEAN :	72.8	22.2	4.49	0.0322	0.0598	2.16	0.424
GEOM. STD. DEV. :	1.7	1.6	1.05	1.7381	1.3693	2.13	1.744
1ST QUARTILE :	52.3	17.7	4.34	0.0245	0.0466	1.40	0.370
2ND QUARTILE :	59.0	26.0	4.36	0.0417	0.0676	2.52	0.415
3RD QUARTILE :	100.0	28.6	4.58	0.0452	0.0744	3.90	0.555
VOL. WGT. MEAN :	*****	22.5	*****	0.0332	0.0592	2.43	0.421
	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	13	13	13	13	13	13	13
MAXIMUM :	0.840	0.600	1.020	0.160	0.110	0.255	0.885
MINIMUM :	0.070	0.020	0.130	0.000	0.000	0.010	0.060
RANGE :	0.770	0.580	0.890	0.160	0.110	0.245	0.825
ARITH. MEAN :	0.395	0.171	0.492	0.058	0.040	0.069	0.387
ARITH. STD. DEV :	0.268	0.140	0.309	0.049	0.038	0.066	0.273
GEOM. MEAN :	0.283	0.134	0.402	0.053	0.031	0.048	0.282
GEOM. STD. DEV. :	2.580	2.130	1.978	3.055	3.958	2.546	2.498
1ST QUARTILE :	0.105	0.105	0.230	0.015	0.004	0.027	0.125
2ND QUARTILE :	0.395	0.135	0.390	0.042	0.032	0.042	0.320
3RD QUARTILE :	0.580	0.170	0.615	0.087	0.052	0.070	0.510
VOL. WGT. MEAN :	0.288	0.159	0.522	0.042	0.045	0.065	0.390

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : COLDWATER/CUMULATIVE PRECIP. #12

PERIOD OF REPORT : DEC 31,84 TO JAN 3,86

PAGE : 2

	PHOSPHOR	MANGANESE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	13	12	12	12	12	12	12
MAXIMUM :	0.1170	14.00	0.60	13.80	364.50	14.34	0.50
MINIMUM :	0.0015	0.50	0.10	1.54	12.15	1.13	0.20
RANGE :	0.1155	13.50	0.50	12.26	352.35	13.21	0.30
ARITH. MEAN :	0.0190	4.54	0.28	6.20	73.05	6.95	0.26
ARITH. STD. DEV :	0.0305	3.85	0.16	4.18	99.03	3.72	0.11
GEOM. MEAN :	0.0095	3.10	0.24	4.88	42.71	5.83	0.24
GEOM. STD. DEV. :	3.3343	2.70	1.96	2.12	2.74	2.00	1.42
1ST QUARTILE :	0.0047	1.50	0.10	2.41	16.88	3.76	0.20
2ND QUARTILE :	0.0105	4.00	0.30	5.52	39.93	6.85	0.20
3RD QUARTILE :	0.0145	6.00	0.35	9.92	71.95	9.42	0.30
VOL. WGT. MEAN :	0.0354	4.25	0.24	5.30	56.99	5.48	0.24

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES :	12	12	11
MAXIMUM :	280.70	4.29	0.19
MINIMUM :	14.17	0.15	0.02
RANGE :	266.53	4.14	0.17
ARITH. MEAN :	75.79	1.48	0.09
ARITH. STD. DEV :	92.09	1.14	0.06
GEOM. MEAN :	46.04	1.08	0.07
GEOM. STD. DEV. :	2.64	2.49	2.21
1ST QUARTILE :	21.31	0.65	0.02
2ND QUARTILE :	39.23	1.49	0.07
3RD QUARTILE :	68.93	1.84	0.12
VOL. WGT. MEAN :	58.65	1.59	0.07

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
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STATION NAME : DALHOUSIE MILLS/CUMULATIVE PRECIP. #16

PERIOD OF REPORT : JAN 2,85 TO DEC 31,85

PAGE : 1

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	13	12	11	11	12	12	12
MAXIMUM :	91.0	40.7	5.27	0.0708	0.1230	4.95	0.760
MINIMUM :	20.0	7.9	4.15	0.0054	0.0252	0.70	0.140
RANGE :	71.0	32.8	1.12	0.0654	0.0978	4.25	0.620
ARITH. MEAN :	60.6	25.1	4.52	0.0364	0.0660	2.67	0.472
ARITH. STD. DEV. :	23.2	9.5	0.31	0.0195	0.0273	1.39	0.201
GEOM. MEAN :	55.6	22.9	4.51	0.0303	0.0607	2.28	0.419
GEOM. STD. DEV. :	1.6	1.6	1.07	2.0642	1.5558	1.87	1.770
1ST QUARTILE :	36.5	21.6	4.26	0.0192	0.0485	1.52	0.355
2ND QUARTILE :	63.5	26.2	4.41	0.0304	0.0617	2.47	0.495
3RD QUARTILE :	78.0	30.3	4.63	0.0484	0.0801	3.93	0.625
VOL. WGT. MEAN :	*****	24.8	*****	0.0373	0.0661	2.60	0.451

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	10	11	11	10	9	11	11
MAXIMUM :	1.040	0.340	1.270	0.160	0.110	0.215	0.885
MINIMUM :	0.070	0.090	0.140	0.005	0.002	0.015	0.085
RANGE :	0.970	0.250	1.130	0.155	0.108	0.200	0.800
ARITH. MEAN :	0.355	0.167	0.518	0.053	0.049	0.077	0.360
ARITH. STD. DEV. :	0.265	0.082	0.336	0.041	0.034	0.059	0.239
GEOM. MEAN :	0.288	0.151	0.429	0.041	0.033	0.060	0.292
GEOM. STD. DEV. :	2.005	1.604	1.932	2.376	3.310	2.121	2.010
1ST QUARTILE :	0.200	0.090	0.220	0.035	0.017	0.032	0.147
2ND QUARTILE :	0.330	0.135	0.425	0.042	0.047	0.057	0.260
3RD QUARTILE :	0.360	0.230	0.655	0.055	0.062	0.092	0.517
VOL. WGT. MEAN :	0.303	0.153	0.459	0.047	0.044	0.076	0.322

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH



ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : DALHOUSIE MILLS/CUMULATIVE PRECIP. #16

PERIOD OF REPORT : JAN 2,85 TO DEC 31,85

PAGE : 2

	PHOSPHOR	MANGANSE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	11	12	12	12	12	12	12
MAXIMUM :	0.0570	18.00	1.50	11.97	267.20	13.94	0.80
MINIMUM :	0.0000	0.50	0.10	2.42	10.10	2.66	0.20
RANGE :	0.0570	17.50	1.40	9.55	257.10	11.28	0.60
ARITH. MEAN :	0.0105	5.54	0.65	6.18	51.45	7.21	0.32
ARITH. STD. DEV :	0.0163	4.55	0.48	2.84	70.33	4.06	0.22
GEOM. MEAN :	0.0090	4.10	0.46	5.61	32.96	6.22	0.27
GEOM. STD. DEV. :	3.5586	2.43	2.57	1.59	2.38	1.77	1.73
1ST QUARTILE :	0.0012	3.00	0.27	4.04	18.60	3.88	0.20
2ND QUARTILE :	0.0042	4.50	0.55	5.39	29.24	5.73	0.20
3RD QUARTILE :	0.0100	7.00	1.00	7.37	51.91	10.75	0.35
VOL. WGT. MEAN :	0.0075	5.17	0.63	6.09	43.41	7.23	0.30

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES :	11	12	12
MAXIMUM :	130.10	13.01	0.24
MINIMUM :	23.60	0.16	0.01
RANGE :	106.50	12.85	0.23
ARITH. MEAN :	52.38	2.21	0.14
ARITH. STD. DEV :	32.95	3.49	0.09
GEOM. MEAN :	45.40	1.10	0.10
GEOM. STD. DEV. :	1.70	3.38	3.25
1ST QUARTILE :	30.03	0.46	0.06
2ND QUARTILE :	37.03	1.37	0.19
3RD QUARTILE :	60.50	1.92	0.21
VOL. WGT. MEAN :	52.32	1.76	0.14

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
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STATION NAME : DORION/CUMULATIVE PRECIP.

#31

PERIOD OF REPORT : JAN 2,85 TO DEC 31,85

PAGE : 1

	PRECIP.	CONDUCT.	PH	FREE H+	TOTAL H+	SULPHATE	NITRATE
	MM	UMHO/CM	LAB	LAB	GRAM	MG/L	AS N
				MG/L	MG/L		MG/L
# OF SAMPLES :	13	13	13	13	13	13	13
MAXIMUM :	187.0	22.8	6.27	0.0363	0.0688	2.40	0.610
MINIMUM :	14.1	8.0	4.44	0.0005	0.0221	0.55	0.120
RANGE :	172.9	14.8	1.83	0.0358	0.0467	1.85	0.490
ARITH. MEAN :	69.4	12.9	4.89	0.0170	0.0400	1.27	0.266
ARITH. STD. DEV :	50.6	3.7	0.46	0.0091	0.0124	0.54	0.128
GEOM. MEAN :	51.9	12.5	4.87	0.0129	0.0383	1.16	0.244
GEOM. STD. DEV. :	2.3	1.3	1.09	2.8810	1.3542	1.56	1.524
1ST QUARTILE :	20.9	10.5	4.66	0.0110	0.0322	0.77	0.185
2ND QUARTILE :	60.0	12.0	4.74	0.0168	0.0372	1.20	0.225
3RD QUARTILE :	91.8	14.0	4.84	0.0204	0.0428	1.50	0.300
VOL. WGT. MEAN :	*****	12.3	*****	0.0160	0.0379	1.33	0.227
	CALCIUM	CHLORIDE	KJELDAHL	MAGNESIM	POTASSIM	SODIUM	AMMONIUM
	MG/L	MG/L	AS N	MG/L	MG/L	MG/L	AS N
			MG/L				MG/L
# OF SAMPLES :	13	13	13	13	13	13	13
MAXIMUM :	0.660	0.220	0.770	0.085	0.055	0.210	0.665
MINIMUM :	0.050	0.000	0.090	0.002	0.000	0.008	0.030
RANGE :	0.610	0.220	0.680	0.082	0.055	0.202	0.635
ARITH. MEAN :	0.218	0.080	0.331	0.030	0.022	0.073	0.240
ARITH. STD. DEV :	0.169	0.079	0.206	0.025	0.020	0.067	0.196
GEOM. MEAN :	0.169	0.096	0.275	0.020	0.030	0.044	0.163
GEOM. STD. DEV. :	2.131	2.807	1.905	2.900	3.465	3.138	2.727
1ST QUARTILE :	0.100	0.017	0.155	0.008	0.002	0.022	0.070
2ND QUARTILE :	0.145	0.030	0.275	0.020	0.016	0.037	0.167
3RD QUARTILE :	0.285	0.140	0.390	0.037	0.035	0.102	0.335
VOL. WGT. MEAN :	0.206	0.041	0.334	0.029	0.021	0.040	0.253

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
-----

STATION NAME : DORION/CUMULATIVE PRECIP.

#31

PERIOD OF REPORT : JAN 2,85 TO DEC 31,85

PAGE : 2

	PHOSPHOR	MANGANSE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	13	13	13	13	13	13	13
MAXIMUM :	0.0220	8.00	0.50	29.01	89.58	22.23	0.20
MINIMUM :	0.0015	0.50	0.10	1.09	3.09	1.22	0.20
RANGE :	0.0205	7.50	0.40	27.92	86.49	21.01	0.00
ARITH. MEAN :	0.0108	2.92	0.22	5.81	41.46	5.44	0.20
ARITH. STD. DEV :	0.0057	2.49	0.14	7.17	27.34	5.81	0.00
GEOM. MEAN :	0.0086	2.06	0.18	4.07	30.91	3.69	0.20
GEOM. STD. DEV. :	2.2888	2.47	1.90	2.18	2.55	2.40	1.00
1ST QUARTILE :	0.0085	1.00	0.10	2.39	21.08	2.03	0.20
2ND QUARTILE :	0.0100	2.00	0.15	3.62	35.03	2.24	0.20
3RD QUARTILE :	0.0125	3.00	0.30	5.49	51.32	5.92	0.20
VOL. WGT. MEAN :	0.0081	2.93	0.21	3.97	35.36	3.35	0.20

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES :	13	13	13
MAXIMUM :	93.36	11.86	0.24
MINIMUM :	8.61	0.12	0.01
RANGE :	84.75	11.74	0.23
ARITH. MEAN :	44.53	2.39	0.05
ARITH. STD. DEV :	27.76	3.46	0.06
GEOM. MEAN :	35.65	0.84	0.04
GEOM. STD. DEV. :	2.11	5.00	2.25
1ST QUARTILE :	21.00	0.16	0.03
2ND QUARTILE :	32.07	0.69	0.04
3RD QUARTILE :	63.86	2.82	0.05
VOL. WGT. MEAN :	36.46	1.40	0.06

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
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STATION NAME : DORSET/CUMULATIVE PRECIP.

#20

PERIOD OF REPORT : JAN 2,85 TO DEC 31,85

PAGE : 1

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	13	12	11	11	12	12	12
MAXIMUM :	136.0	35.7	4.72	0.0603	0.0967	3.85	0.770
MINIMUM :	42.0	21.3	4.22	0.0191	0.0525	0.80	0.280
RANGE :	94.0	14.4	0.50	0.0412	0.0442	3.05	0.490
ARITH. MEAN :	82.3	27.1	4.36	0.0451	0.0738	2.50	0.526
ARITH. STD. DEV :	30.7	4.8	0.14	0.0122	0.0130	1.01	0.134
GEOM. MEAN :	77.0	26.8	4.36	0.0432	0.0728	2.26	0.509
GEOM. STD. DEV. :	1.5	1.2	1.03	1.3868	1.1910	1.65	1.313
1ST QUARTILE :	57.5	24.0	4.23	0.0368	0.0663	1.57	0.435
2ND QUARTILE :	74.5	26.3	4.35	0.0437	0.0694	2.72	0.505
3RD QUARTILE :	94.5	29.8	4.39	0.0550	0.0827	3.32	0.625
VOL. WGT. MEAN :	*****	27.7	*****	0.0459	0.0755	2.52	0.505

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	11	12	11	11	12	12	12
MAXIMUM :	0.490	0.220	0.950	0.075	0.095	0.090	0.595
MINIMUM :	0.010	0.090	0.140	0.000	0.000	0.010	0.090
RANGE :	0.480	0.130	0.810	0.075	0.095	0.080	0.505
ARITH. MEAN :	0.246	0.142	0.367	0.034	0.024	0.044	0.315
ARITH. STD. DEV :	0.159	0.043	0.240	0.025	0.033	0.023	0.160
GEOM. MEAN :	0.170	0.136	0.309	0.037	0.027	0.037	0.271
GEOM. STD. DEV. :	3.123	1.346	1.836	2.898	4.224	1.975	1.855
1ST QUARTILE :	0.085	0.115	0.150	0.005	0.002	0.032	0.175
2ND QUARTILE :	0.225	0.130	0.325	0.030	0.005	0.042	0.342
3RD QUARTILE :	0.365	0.175	0.405	0.052	0.035	0.052	0.435
VOL. WGT. MEAN :	0.244	0.138	0.355	0.034	0.019	0.044	0.304

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
-----

STATION NAME : DORSET/CUMULATIVE PRECIP.

#20

PERIOD OF REPORT : JAN 2,85 TO DEC 31,85

PAGE : 2

	PHOSPHOR	MANGANSE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	11	11	11	10	11	11	11
MAXIMUM :	0.0120	22.00	1.10	7.51	186.40	11.18	0.50
MINIMUM :	0.0000	0.50	0.10	1.18	9.09	1.24	0.20
RANGE :	0.0120	21.50	1.00	6.32	177.31	9.94	0.30
ARITH. MEAN :	0.0041	4.14	0.45	3.96	48.51	5.62	0.26
ARITH. STD. DEV. :	0.0040	6.33	0.32	2.35	54.43	3.47	0.11
GEOM. MEAN :	0.0050	1.95	0.34	3.34	30.12	4.61	0.25
GEOM. STD. DEV. :	3.0148	3.43	2.38	1.87	2.70	2.00	1.44
1ST QUARTILE :	0.0010	0.50	0.10	2.11	11.46	2.72	0.20
2ND QUARTILE :	0.0018	1.50	0.40	2.80	21.36	4.00	0.20
3RD QUARTILE :	0.0070	3.50	0.60	5.69	64.01	8.27	0.30
VOL. WGT. MEAN :	0.0037	3.63	0.39	3.74	44.91	5.51	0.27

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES :	11	12	11
MAXIMUM :	173.30	2.98	0.17
MINIMUM :	15.04	0.12	0.01
RANGE :	158.26	2.85	0.16
ARITH. MEAN :	50.67	0.85	0.06
ARITH. STD. DEV. :	51.38	0.76	0.05
GEOM. MEAN :	34.77	0.60	0.04
GEOM. STD. DEV. :	2.36	2.51	2.61
1ST QUARTILE :	16.07	0.33	0.02
2ND QUARTILE :	24.70	0.73	0.04
3RD QUARTILE :	66.94	1.05	0.08
VOL. WGT. MEAN :	47.04	0.74	0.06

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
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STATION NAME : EAR FALL'S/CUMULATIVE PRECIP. #35

PERIOD OF REPORT : JAN 2,85 TO DEC 31,85

PAGE : 1

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	13	12	13	13	13	12	12
MAXIMUM :	100.0	24.7	6.07	0.0309	0.0566	2.80	0.880
MINIMUM :	9.1	5.6	4.51	0.0009	0.0179	0.40	0.100
RANGE :	90.9	19.1	1.56	0.0301	0.0387	2.40	0.780
ARITH. MEAN :	53.0	9.9	5.22	0.0092	0.0315	0.94	0.230
ARITH. STD. DEV. :	33.4	5.8	0.44	0.0089	0.0116	0.64	0.215
GEOM. MEAN :	41.7	8.8	5.21	0.0060	0.0298	0.82	0.184
GEOM. STD. DEV. :	2.2	1.6	1.09	2.7725	1.4067	1.65	1.848
1ST QUARTILE :	22.1	6.0	4.84	0.0031	0.0235	0.57	0.120
2ND QUARTILE :	40.8	7.8	5.26	0.0052	0.0261	0.75	0.145
3RD QUARTILE :	79.4	11.3	5.36	0.0112	0.0354	0.95	0.255
VOL. WGT. MEAN :	*****	7.6	*****	0.0067	0.0286	0.78	0.170

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	12	12	12	12	12	12	13
MAXIMUM :	0.380	1.110	0.380	0.075	0.060	0.240	0.420
MINIMUM :	0.050	0.000	0.080	0.005	0.000	0.008	0.000
RANGE :	0.330	1.110	0.300	0.070	0.060	0.232	0.420
ARITH. MEAN :	0.187	0.192	0.196	0.023	0.022	0.079	0.137
ARITH. STD. DEV. :	0.111	0.308	0.094	0.022	0.018	0.071	0.125
GEOM. MEAN :	0.156	0.122	0.175	0.015	0.025	0.052	0.114
GEOM. STD. DEV. :	1.940	3.265	1.657	2.707	2.445	2.769	3.138
1ST QUARTILE :	0.105	0.027	0.115	0.005	0.006	0.025	0.045
2ND QUARTILE :	0.165	0.070	0.175	0.017	0.022	0.055	0.092
3RD QUARTILE :	0.280	0.220	0.270	0.030	0.032	0.132	0.165
VOL. WGT. MEAN :	0.193	0.087	0.209	0.027	0.026	0.046	0.136

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
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STATION NAME : EAR FALL'S/CUMULATIVE PRECIP. #35

PERIOD OF REPORT : JAN 2,85 TO DEC 31,85

PAGE : 2

	PHOSPHOR	MANGANSE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	12	11	11	11	11	11	11
MAXIMUM :	0.0280	7.00	3.00	6.48	100.60	9.35	0.20
MINIMUM :	0.0015	0.50	0.10	1.47	18.33	0.98	0.20
RANGE :	0.0265	6.50	2.90	5.01	82.27	8.36	0.00
ARITH. MEAN :	0.0095	2.95	0.43	3.86	49.75	4.30	0.20
ARITH. STD. DEV :	0.0083	1.96	0.86	1.89	29.35	3.15	0.00
GEOM. MEAN :	0.0062	2.31	0.19	3.39	42.25	3.24	0.20
GEOM. STD. DEV. :	2.7995	2.22	2.94	1.75	1.83	2.27	1.00
1ST QUARTILE :	0.0022	1.00	0.10	1.63	21.66	1.50	0.20
2ND QUARTILE :	0.0085	2.50	0.10	3.40	35.82	2.37	0.20
3RD QUARTILE :	0.0140	4.00	0.30	5.36	69.24	6.68	0.20
VOL. WGT. MEAN :	0.0062	3.03	0.23	3.43	44.46	3.90	0.20

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES :	11	11	11
MAXIMUM :	81.37	2.15	3.60
MINIMUM :	15.50	0.18	0.01
RANGE :	65.87	1.98	3.59
ARITH. MEAN :	42.98	0.86	0.37
ARITH. STD. DEV :	22.32	0.66	1.07
GEOM. MEAN :	37.98	0.65	0.05
GEOM. STD. DEV. :	1.70	2.19	4.89
1ST QUARTILE :	24.26	0.36	0.02
2ND QUARTILE :	36.00	0.52	0.03
3RD QUARTILE :	55.36	1.22	0.08
VOL. WGT. MEAN :	39.28	0.69	0.30

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
-----

STATION NAME : EXP. LAKES AREA/CUMULATIVE PRECIP. #34

PERIOD OF REPORT : JAN 2,85 TO DEC 31,85

PAGE : 1

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	13	13	13	13	13	13	13
MAXIMUM :	160.0	25.3	6.21	0.0331	0.0652	2.40	0.830
MINIMUM :	5.6	5.7	4.48	0.0006	0.0122	0.55	0.120
RANGE :	154.4	19.6	1.73	0.0325	0.0530	1.85	0.710
ARITH. MEAN :	68.6	11.8	5.26	0.0110	0.0324	1.06	0.289
ARITH. STD. DEV. :	51.4	5.9	0.62	0.0106	0.0158	0.48	0.199
GEOM. MEAN :	46.1	10.6	5.23	0.0055	0.0291	0.98	0.245
GEOM. STD. DEV. :	2.9	1.6	1.12	4.1287	1.6205	1.48	1.757
1ST QUARTILE :	17.8	6.7	4.69	0.0013	0.0206	0.72	0.155
2ND QUARTILE :	61.3	10.6	5.10	0.0061	0.0249	0.90	0.210
3RD QUARTILE :	99.9	12.5	5.60	0.0188	0.0388	1.22	0.300
VOL. WGT. MEAN :	*****	8.9	*****	0.0046	0.0237	0.96	0.203
	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	12	13	13	12	12	12	13
MAXIMUM :	0.370	0.390	0.870	0.065	0.045	0.280	0.710
MINIMUM :	0.070	0.000	0.140	0.005	0.005	0.008	0.050
RANGE :	0.300	0.390	0.730	0.060	0.040	0.272	0.660
ARITH. MEAN :	0.207	0.125	0.361	0.026	0.022	0.086	0.255
ARITH. STD. DEV. :	0.099	0.127	0.195	0.021	0.014	0.081	0.185
GEOM. MEAN :	0.184	0.099	0.320	0.019	0.018	0.051	0.194
GEOM. STD. DEV. :	1.697	2.994	1.665	2.397	2.092	3.292	2.286
1ST QUARTILE :	0.130	0.022	0.190	0.008	0.010	0.022	0.107
2ND QUARTILE :	0.210	0.070	0.325	0.020	0.022	0.067	0.225
3RD QUARTILE :	0.275	0.160	0.400	0.040	0.035	0.118	0.290
VOL. WGT. MEAN :	0.240	0.055	0.374	0.032	0.026	0.050	0.274

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH



ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
-----

STATION NAME : EXP. LAKES AREA/CUMULATIVE PRECIP. #34

PERIOD OF REPORT : JAN 2,85 TO DEC 31,85

PAGE : 2

	PHOSPHOR	MANGANESE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	13	11	11	11	11	11	11
MAXIMUM :	0.0590	11.00	1.20	20.56	179.10	13.15	0.50
MINIMUM :	0.0025	1.00	0.10	1.40	14.89	1.42	0.20
RANGE :	0.0565	10.00	1.10	19.16	164.21	11.73	0.30
ARITH. MEAN :	0.0187	3.82	0.43	5.80	56.61	5.08	0.25
ARITH. STD. DEV :	0.0169	3.12	0.35	5.62	46.02	4.64	0.10
GEOM. MEAN :	0.0119	2.91	0.32	4.23	43.80	3.58	0.23
GEOM. STD. DEV. :	2.9183	2.15	2.16	2.22	2.12	2.33	1.39
1ST QUARTILE :	0.0047	1.50	0.20	1.94	17.97	1.76	0.20
2ND QUARTILE :	0.0135	2.50	0.20	3.93	49.60	2.41	0.20
3RD QUARTILE :	0.0230	4.50	0.55	5.37	63.52	7.79	0.20
VOL. WGT. MEAN :	0.0107	4.68	0.31	3.72	59.61	3.73	0.28
	ALUMINUM	COPPER	CADMIUM				
	UG/L	UG/L	UG/L				
# OF SAMPLES :	11	11	11				
MAXIMUM :	179.30	4.95	0.18				
MINIMUM :	19.49	0.13	0.02				
RANGE :	159.81	4.82	0.16				
ARITH. MEAN :	58.43	1.07	0.05				
ARITH. STD. DEV :	44.28	1.39	0.04				
GEOM. MEAN :	48.18	0.65	0.04				
GEOM. STD. DEV. :	1.87	2.69	1.86				
1ST QUARTILE :	26.01	0.34	0.02				
2ND QUARTILE :	47.81	0.49	0.04				
3RD QUARTILE :	64.56	1.05	0.06				
VOL. WGT. MEAN :	62.28	0.65	0.04				

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
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STATION NAME : GERALDTON/CUMULATIVE PRECIP. #30

PERIOD OF REPORT : JAN 2,85 TO JAN 1,86

PAGE : 1

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	12	12	12	12	12	12	12
MAXIMUM :	157.0	18.6	5.97	0.0282	0.0517	2.95	0.490
MINIMUM :	15.8	6.4	4.55	0.0011	0.0230	0.55	0.100
RANGE :	141.2	12.2	1.42	0.0271	0.0287	2.40	0.390
ARITH. MEAN :	53.9	12.1	4.99	0.0131	0.0355	1.27	0.226
ARITH. STD. DEV :	39.3	3.9	0.39	0.0072	0.0084	0.72	0.116
GEOM. MEAN :	43.2	11.5	4.98	0.0102	0.0346	1.13	0.204
GEOM. STD. DEV. :	2.0	1.4	1.08	2.4686	1.2806	1.64	1.575
1ST QUARTILE :	22.4	9.4	4.78	0.0089	0.0291	0.77	0.155
2ND QUARTILE :	45.9	11.3	4.85	0.0140	0.0366	1.02	0.190
3RD QUARTILE :	71.9	15.1	5.05	0.0166	0.0408	1.45	0.240
VOL. WGT. MEAN :	*****	12.3	*****	0.0115	0.0333	1.30	0.206
	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	11	12	11	11	11	11	12
MAXIMUM :	0.600	0.630	1.180	0.070	0.140	0.250	0.655
MINIMUM :	0.080	0.020	0.080	0.005	0.002	0.025	0.000
RANGE :	0.520	0.610	1.100	0.065	0.137	0.225	0.655
ARITH. MEAN :	0.215	0.185	0.441	0.027	0.042	0.122	0.206
ARITH. STD. DEV :	0.149	0.172	0.333	0.022	0.042	0.074	0.192
GEOM. MEAN :	0.181	0.117	0.341	0.019	0.022	0.097	0.188
GEOM. STD. DEV. :	1.804	2.969	2.169	2.631	3.849	2.194	2.453
1ST QUARTILE :	0.105	0.050	0.195	0.006	0.005	0.042	0.102
2ND QUARTILE :	0.165	0.175	0.290	0.022	0.027	0.120	0.147
3RD QUARTILE :	0.260	0.255	0.580	0.040	0.060	0.165	0.277
VOL. WGT. MEAN :	0.209	0.116	0.471	0.028	0.047	0.093	0.244

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
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STATION NAME : GERALDTON/CUMULATIVE PRECIP. #30

PERIOD OF REPORT : JAN 2,85 TO JAN 1,86

PAGE : 2

	PHOSPHOR	MANGANSE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	11	11	11	11	11	11	11
MAXIMUM :	0.0630	7.00	1.40	16.12	129.00	12.08	0.40
MINIMUM :	0.0010	1.00	0.10	1.07	14.31	1.07	0.20
RANGE :	0.0620	6.00	1.30	15.05	114.69	11.01	0.20
ARITH. MEAN :	0.0206	2.82	0.39	6.16	46.69	5.37	0.22
ARITH. STD. DEV :	0.0191	2.23	0.37	4.80	32.84	3.87	0.06
GEOM. MEAN :	0.0123	2.11	0.30	4.56	37.72	4.13	0.21
GEOM. STD. DEV. :	3.4303	2.21	2.03	2.34	2.01	2.22	1.23
1ST QUARTILE :	0.0047	1.00	0.20	2.09	16.43	2.06	0.20
2ND QUARTILE :	0.0135	1.50	0.25	4.65	41.62	3.81	0.20
3RD QUARTILE :	0.0305	4.00	0.35	8.01	56.71	8.35	0.20
VOL. WGT. MEAN :	0.0243	2.99	0.37	7.19	46.22	4.22	0.21

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES :	11	11	11
MAXIMUM :	164.10	6.04	1.18
MINIMUM :	15.19	0.19	0.02
RANGE :	148.91	5.85	1.16
ARITH. MEAN :	53.32	1.55	0.19
ARITH. STD. DEV :	39.30	1.64	0.34
GEOM. MEAN :	44.94	1.01	0.08
GEOM. STD. DEV. :	1.79	2.73	3.37
1ST QUARTILE :	32.09	0.40	0.02
2ND QUARTILE :	39.98	0.99	0.08
3RD QUARTILE :	56.16	1.96	0.15
VOL. WGT. MEAN :	44.53	1.19	0.17

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
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STATION NAME : GOLDEN LAKE/CUMULATIVE PRECIP. #17

PERIOD OF REPORT : JAN 2,85 TO DEC 31,85

PAGE : 1

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	13	12	12	12	12	12	12
MAXIMUM :	87.0	43.2	4.64	0.0977	0.1240	4.40	0.830
MINIMUM :	26.0	14.9	4.01	0.0229	0.0468	1.35	0.250
RANGE :	61.0	28.3	0.63	0.0748	0.0772	3.05	0.580
ARITH. MEAN :	55.6	27.3	4.36	0.0481	0.0745	2.50	0.471
ARITH. STD. DEV :	21.1	8.8	0.19	0.0221	0.0222	1.13	0.178
GEOM. MEAN :	51.9	26.0	4.35	0.0439	0.0717	2.27	0.441
GEOM. STD. DEV. :	1.5	1.4	1.05	1.5505	1.3282	1.57	1.467
1ST QUARTILE :	39.0	20.3	4.22	0.0299	0.0580	1.52	0.345
2ND QUARTILE :	50.0	27.4	4.38	0.0412	0.0670	2.10	0.420
3RD QUARTILE :	69.1	32.9	4.52	0.0612	0.0888	3.50	0.605
VOL. WGT. MEAN :	*****	25.9	*****	0.0441	0.0710	2.40	0.444

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	11	12	12	11	10	11	12
MAXIMUM :	0.520	0.180	0.800	0.075	0.050	0.070	0.680
MINIMUM :	0.110	0.020	0.170	0.005	0.000	0.005	0.060
RANGE :	0.410	0.160	0.630	0.070	0.050	0.065	0.620
ARITH. MEAN :	0.262	0.089	0.365	0.038	0.025	0.035	0.284
ARITH. STD. DEV :	0.133	0.058	0.223	0.021	0.020	0.022	0.210
GEOM. MEAN :	0.232	0.067	0.314	0.031	0.054	0.028	0.223
GEOM. STD. DEV. :	1.695	2.310	1.733	2.169	2.557	2.248	2.071
1ST QUARTILE :	0.130	0.030	0.205	0.017	0.004	0.015	0.145
2ND QUARTILE :	0.245	0.110	0.270	0.035	0.027	0.027	0.170
3RD QUARTILE :	0.335	0.140	0.505	0.052	0.042	0.055	0.430
VOL. WGT. MEAN :	0.257	0.084	0.362	0.036	0.022	0.034	0.278

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
-----

STATION NAME : GOLDEN LAKE/CUMULATIVE PRECIP.

#17

PERIOD OF REPORT : JAN 2,85 TO DEC 31,85

PAGE : 2

	PHOSPHOR	MANGANSE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	12	12	12	12	12	12	12
MAXIMUM :	0.0140	8.00	1.40	11.23	117.70	11.83	0.20
MINIMUM :	0.0005	0.50	0.10	1.34	12.74	0.59	0.20
RANGE :	0.0135	7.50	1.30	9.89	104.96	11.24	0.00
ARITH. MEAN :	0.0045	2.87	0.39	3.90	42.03	5.01	0.20
ARITH. STD. DEV :	0.0041	2.47	0.36	2.62	31.99	4.01	0.00
GEOM. MEAN :	0.0031	1.99	0.28	3.34	33.26	3.45	0.20
GEOM. STD. DEV. :	2.6465	2.50	2.36	1.74	2.02	2.68	1.00
1ST QUARTILE :	0.0018	1.00	0.10	2.29	17.18	1.91	0.20
2ND QUARTILE :	0.0025	1.50	0.35	3.01	33.00	4.13	0.20
3RD QUARTILE :	0.0060	4.50	0.45	4.54	49.84	7.66	0.20
VOL. WGT. MEAN :	0.0045	2.76	0.34	3.62	41.05	4.88	0.20

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES :	12	12	11
MAXIMUM :	150.50	7.59	0.69
MINIMUM :	16.47	0.16	0.01
RANGE :	134.03	7.43	0.68
ARITH. MEAN :	45.42	1.50	0.12
ARITH. STD. DEV :	37.02	2.02	0.19
GEOM. MEAN :	36.88	0.85	0.07
GEOM. STD. DEV. :	1.87	3.03	2.83
1ST QUARTILE :	22.00	0.44	0.03
2ND QUARTILE :	34.59	0.96	0.06
3RD QUARTILE :	50.95	1.43	0.10
VOL. WGT. MEAN :	41.44	1.30	0.11

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : GOWGANDA/CUMULATIVE PRECIP.

#25

PERIOD OF REPORT : JAN 2,85 TO DEC 31,85

PAGE : 1

	PRECIP.	CONDUCT.	PH	FREE H+	TOTAL H+	SULPHATE	NITRATE
	MM	UMHO/CM	LAB	LAB MG/L	GRAN MG/L	MG/L	AS N MG/L
# OF SAMPLES :	13	13	13	13	13	13	13
MAXIMUM :	86.0	40.3	5.09	0.0741	0.1060	4.00	0.460
MINIMUM :	18.4	6.6	4.13	0.0081	0.0258	0.60	0.020
RANGE :	67.6	33.7	0.96	0.0660	0.0802	3.40	0.440
ARITH. MEAN :	53.5	21.5	4.46	0.0421	0.0652	2.00	0.291
ARITH. STD. DEV :	22.2	10.4	0.32	0.0225	0.0244	1.20	0.153
GEOM. MEAN :	48.3	19.0	4.45	0.0346	0.0604	1.68	0.224
GEOM. STD. DEV. :	1.7	1.7	1.07	2.1017	1.5372	1.85	2.550
1ST QUARTILE :	38.0	12.8	4.21	0.0242	0.0495	1.02	0.160
2ND QUARTILE :	49.5	20.1	4.34	0.0423	0.0623	1.47	0.295
3RD QUARTILE :	68.3	25.9	4.52	0.0509	0.0761	2.45	0.425
VOL. WGT. MEAN :	*****	19.4	*****	0.0370	0.0595	1.87	0.249

	CALCIUM	CHLORIDE	KJELDAHL	MAGNESIM	POTASSIM	SODIUM	AMMONIUM
	MG/L	MG/L	AS N MG/L	MG/L	MG/L	MG/L	AS N MG/L
# OF SAMPLES :	13	13	12	13	13	13	13
MAXIMUM :	0.400	0.750	0.600	0.055	0.180	0.725	0.335
MINIMUM :	0.015	0.025	0.070	0.000	0.000	0.002	0.000
RANGE :	0.385	0.725	0.530	0.055	0.180	0.723	0.335
ARITH. MEAN :	0.115	0.139	0.287	0.018	0.040	0.088	0.144
ARITH. STD. DEV :	0.103	0.196	0.155	0.016	0.048	0.198	0.107
GEOM. MEAN :	0.081	0.082	0.245	0.018	0.039	0.022	0.107
GEOM. STD. DEV. :	2.511	2.672	1.878	2.854	2.421	5.026	4.559
1ST QUARTILE :	0.060	0.032	0.165	0.004	0.015	0.006	0.037
2ND QUARTILE :	0.085	0.080	0.290	0.015	0.025	0.012	0.137
3RD QUARTILE :	0.110	0.105	0.350	0.025	0.030	0.040	0.200
VOL. WGT. MEAN :	0.110	0.144	0.291	0.018	0.048	0.101	0.140

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
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STATION NAME : GOWGANDA/CUMULATIVE PRECIP.

#25

PERIOD OF REPORT : JAN 2,85 TO DEC 31,85

PAGE : 2

	PHOSPHOR	MANGANESE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	12	12	12	12	12	12	12
MAXIMUM :	0.0470	9.00	4.50	10.56	52.03	10.36	0.50
MINIMUM :	0.0010	0.50	0.10	1.36	6.38	1.34	0.20
RANGE :	0.0460	8.50	4.40	9.20	45.65	9.02	0.30
ARITH. MEAN :	0.0138	2.17	0.73	4.03	23.70	5.01	0.26
ARITH. STD. DEV :	0.0155	2.31	1.23	2.96	14.84	2.60	0.11
GEOM. MEAN :	0.0069	1.48	0.35	3.30	19.49	4.27	0.24
GEOM. STD. DEV. :	3.8539	2.47	3.25	1.87	1.96	1.91	1.42
1ST QUARTILE :	0.0020	0.50	0.10	2.29	11.17	3.25	0.20
2ND QUARTILE :	0.0080	2.00	0.30	2.69	20.75	5.12	0.20
3RD QUARTILE :	0.0215	2.00	0.70	5.14	34.30	6.40	0.30
VOL. WGT. MEAN :	0.0138	2.11	0.67	4.04	22.41	4.76	0.27

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES :	12	12	12
MAXIMUM :	69.63	6.88	0.53
MINIMUM :	9.38	0.15	0.01
RANGE :	60.25	6.72	0.52
ARITH. MEAN :	33.43	1.64	0.11
ARITH. STD. DEV :	19.36	2.09	0.14
GEOM. MEAN :	28.79	0.83	0.05
GEOM. STD. DEV. :	1.78	3.42	3.65
1ST QUARTILE :	19.82	0.32	0.02
2ND QUARTILE :	29.31	0.80	0.09
3RD QUARTILE :	42.79	2.00	0.12
VOL. WGT. MEAN :	29.67	1.16	0.11

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
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STATION NAME : HURON PARK/CUMULATIVE PRECIP.

#06

PERIOD OF REPORT : JAN 2,85 TO DEC 31,85

PAGE : 1

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	10	10	10	10	10	10	10
MAXIMUM :	135.0	51.0	4.90	0.0832	0.1110	8.25	1.330
MINIMUM :	20.4	20.1	4.08	0.0126	0.0368	1.70	0.410
RANGE :	114.6	30.9	0.82	0.0706	0.0742	6.55	0.920
ARITH. MEAN :	53.4	37.1	4.39	0.0479	0.0786	4.57	0.803
ARITH. STD. DEV :	40.2	11.3	0.28	0.0236	0.0275	2.16	0.303
GEOM. MEAN :	42.3	35.4	4.38	0.0411	0.0737	4.10	0.751
GEOM. STD. DEV. :	2.0	1.4	1.06	1.8987	1.4850	1.66	1.480
1ST QUARTILE :	21.5	25.3	4.17	0.0243	0.0518	2.60	0.505
2ND QUARTILE :	36.5	41.4	4.29	0.0518	0.0779	4.52	0.765
3RD QUARTILE :	67.5	44.3	4.46	0.0624	0.1025	5.48	0.935
VOL. WGT. MEAN :	*****	36.5	*****	0.0543	0.0840	4.00	0.712

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	10	10	10	10	10	10	10
MAXIMUM :	2.080	0.450	1.960	0.315	0.080	0.130	1.950
MINIMUM :	0.200	0.080	0.380	0.035	0.008	0.030	0.250
RANGE :	1.880	0.370	1.580	0.280	0.072	0.100	1.700
ARITH. MEAN :	0.766	0.237	0.879	0.124	0.041	0.068	0.777
ARITH. STD. DEV :	0.578	0.108	0.499	0.089	0.028	0.033	0.530
GEOM. MEAN :	0.597	0.214	0.771	0.097	0.032	0.062	0.636
GEOM. STD. DEV. :	2.128	1.652	1.699	2.138	2.313	1.596	1.951
1ST QUARTILE :	0.275	0.150	0.470	0.040	0.015	0.042	0.315
2ND QUARTILE :	0.600	0.220	0.725	0.100	0.032	0.060	0.640
3RD QUARTILE :	1.015	0.285	1.030	0.173	0.062	0.070	0.990
VOL. WGT. MEAN :	0.553	0.208	0.716	0.090	0.032	0.058	0.598

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH



ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : HURON PARK/CUMULATIVE PRECIP. #06

PERIOD OF REPORT : JAN 2,85 TO DEC 31,85

PAGE : 2

	PHOSPHOR	MANGANESE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	10	10	10	10	8	10	10
MAXIMUM :	0.0510	15.00	2.60	35.56	302.60	16.66	1.50
MINIMUM :	0.0015	1.00	0.20	4.15	23.82	4.85	0.20
RANGE :	0.0495	14.00	2.40	31.41	278.78	11.81	1.30
ARITH. MEAN :	0.0151	7.10	0.86	14.21	100.26	9.18	0.65
ARITH. STD. DEV :	0.0144	4.33	0.78	9.30	88.02	3.78	0.49
GEOM. MEAN :	0.0096	5.60	0.62	11.96	77.24	8.54	0.49
GEOM. STD. DEV. :	3.0818	2.28	2.28	1.85	2.11	1.49	2.30
1ST QUARTILE :	0.0042	3.50	0.35	8.29	56.40	6.22	0.20
2ND QUARTILE :	0.0120	6.50	0.45	10.09	64.46	7.65	0.55
3RD QUARTILE :	0.0180	9.00	1.05	17.76	116.95	10.83	0.85
VOL. WGT. MEAN :	0.0162	6.87	1.16	14.99	77.07	8.67	0.83

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES :	7	10	10
MAXIMUM :	121.70	2.91	0.30
MINIMUM :	23.35	0.13	0.04
RANGE :	98.35	2.78	0.26
ARITH. MEAN :	77.30	1.70	0.12
ARITH. STD. DEV :	31.98	0.86	0.08
GEOM. MEAN :	69.71	1.34	0.10
GEOM. STD. DEV. :	1.72	2.51	1.98
1ST QUARTILE :	42.00	0.98	0.05
2ND QUARTILE :	71.86	1.68	0.10
3RD QUARTILE :	95.83	2.14	0.15
VOL. WGT. MEAN :	66.05	1.56	0.12

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
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STATION NAME : KILLARNEY/CUMULATIVE PRECIP.

#23

PERIOD OF REPORT : JAN 2,85 TO DEC 30,85

PAGE : 1

	PRECIP.	CONDUCT.	PH	FREE H+	TOTAL H+	SULPHATE	NITRATE
	MM	UMHO/CM	LAB	LAB	GRAN	MG/L	AS N
				MG/L	MG/L		MG/L
# OF SAMPLES :	11	11	11	11	11	11	11
MAXIMUM :	110.0	56.8	4.45	0.1000	0.1360	5.05	0.990
MINIMUM :	15.0	22.1	4.00	0.0355	0.0605	1.05	0.310
RANGE :	95.0	34.7	0.45	0.0645	0.0755	4.00	0.680
ARITH. MEAN :	64.2	33.4	4.29	0.0539	0.0824	2.98	0.577
ARITH. STD. DEV :	36.7	11.3	0.13	0.0186	0.0206	1.20	0.161
GEOM. MEAN :	52.5	31.9	4.29	0.0515	0.0804	2.72	0.559
GEOM. STD. DEV. :	2.1	1.4	1.03	1.3570	1.2454	1.61	1.308
1ST QUARTILE :	24.1	25.2	4.18	0.0394	0.0687	1.63	0.515
2ND QUARTILE :	55.5	27.3	4.28	0.0458	0.0752	3.02	0.545
3RD QUARTILE :	98.0	35.8	4.38	0.0596	0.0877	3.65	0.595
VOL. WGT. MEAN :	*****	32.1	*****	0.0560	0.0848	2.93	0.561
	CALCIUM	CHLORIDE	KJELDAHL	MAGNESIM	POTASSIM	SODIUM	AMMONIUM
	MG/L	MG/L	AS N	MG/L	MG/L	MG/L	AS N
			MG/L				MG/L
# OF SAMPLES :	11	11	11	11	11	11	11
MAXIMUM :	0.700	0.310	0.860	0.135	0.160	0.170	0.600
MINIMUM :	0.015	0.030	0.160	0.005	0.010	0.020	0.085
RANGE :	0.685	0.280	0.700	0.130	0.150	0.150	0.515
ARITH. MEAN :	0.269	0.161	0.476	0.049	0.045	0.069	0.353
ARITH. STD. DEV :	0.219	0.082	0.225	0.039	0.044	0.046	0.179
GEOM. MEAN :	0.170	0.138	0.420	0.034	0.032	0.057	0.299
GEOM. STD. DEV. :	3.214	1.917	1.744	2.747	2.324	1.888	1.947
1ST QUARTILE :	0.060	0.090	0.215	0.016	0.015	0.032	0.132
2ND QUARTILE :	0.195	0.145	0.475	0.032	0.027	0.052	0.340
3RD QUARTILE :	0.420	0.195	0.615	0.065	0.052	0.082	0.507
VOL. WGT. MEAN :	0.206	0.144	0.450	0.039	0.032	0.055	0.344

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
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STATION NAME : KILLARNEY/CUMULATIVE PRECIP. #23

PERIOD OF REPORT : JAN 2,85 TO DEC 30,85

PAGE : 2

	PHOSPHOR	MANGANSE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	11	11	11	11	11	11	11
MAXIMUM :	0.0310	24.00	2.70	16.56	270.70	11.89	1.00
MINIMUM :	0.0010	1.00	0.10	4.33	15.34	3.21	0.20
RANGE :	0.0300	23.00	2.60	12.23	255.36	8.68	0.80
ARITH. MEAN :	0.0100	4.91	0.64	8.24	66.60	7.63	0.34
ARITH. STD. DEV :	0.0108	6.80	0.72	3.64	75.30	2.93	0.25
GEOM. MEAN :	0.0055	2.93	0.44	7.57	45.20	7.04	0.29
GEOM. STD. DEV. :	3.2622	2.57	2.35	1.54	2.35	1.55	1.73
1ST QUARTILE :	0.0022	1.50	0.25	4.57	22.02	4.50	0.20
2ND QUARTILE :	0.0027	2.00	0.40	7.93	37.78	8.27	0.20
3RD QUARTILE :	0.0160	3.50	0.65	9.62	58.23	9.51	0.40
VOL. WGT. MEAN :	0.0066	3.03	0.47	8.24	41.26	7.77	0.27

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES :	11	11	11
MAXIMUM :	248.00	15.29	0.50
MINIMUM :	9.89	0.27	0.07
RANGE :	238.11	15.01	0.43
ARITH. MEAN :	60.88	2.65	0.16
ARITH. STD. DEV :	68.35	4.30	0.14
GEOM. MEAN :	41.82	1.33	0.13
GEOM. STD. DEV. :	2.34	3.09	1.94
1ST QUARTILE :	23.83	0.44	0.08
2ND QUARTILE :	37.60	1.07	0.09
3RD QUARTILE :	47.13	2.22	0.20
VOL. WGT. MEAN :	40.96	1.80	0.13

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
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STATION NAME : LAC LA CROIX/CUMULATIVE PRECIP. #33

PERIOD OF REPORT : JAN 2,85 TO DEC 31,85

PAGE : 1

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	11	10	11	11	11	10	10
MAXIMUM :	144.8	18.9	6.23	0.0219	0.0494	1.70	0.460
MINIMUM :	12.0	6.5	4.66	0.0006	0.0186	0.70	0.150
RANGE :	132.8	12.4	1.57	0.0213	0.0308	1.00	0.310
ARITH. MEAN :	58.9	11.5	5.13	0.0110	0.0353	1.08	0.261
ARITH. STD. DEV :	42.5	3.7	0.53	0.0069	0.0096	0.37	0.086
GEOM. MEAN :	45.7	11.0	5.11	0.0073	0.0339	1.03	0.250
GEOM. STD. DEV. :	2.2	1.4	1.10	3.3941	1.3582	1.39	1.365
1ST QUARTILE :	22.4	9.5	4.74	0.0041	0.0252	0.75	0.200
2ND QUARTILE :	38.3	10.1	4.93	0.0098	0.0360	0.97	0.245
3RD QUARTILE :	83.4	12.4	5.12	0.0154	0.0417	1.27	0.280
VOL. WGT. MEAN :	*****	10.8	*****	0.0081	0.0304	1.15	0.243

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	10	10	9	10	10	10	10
MAXIMUM :	0.590	1.030	0.730	0.105	0.070	0.970	0.425
MINIMUM :	0.060	0.000	0.180	0.015	0.005	0.025	0.002
RANGE :	0.530	1.030	0.550	0.090	0.065	0.945	0.423
ARITH. MEAN :	0.276	0.190	0.392	0.048	0.044	0.167	0.211
ARITH. STD. DEV :	0.159	0.309	0.182	0.030	0.018	0.290	0.145
GEOM. MEAN :	0.233	0.125	0.359	0.040	0.038	0.077	0.122
GEOM. STD. DEV. :	1.921	3.479	1.560	1.911	2.109	3.182	4.730
1ST QUARTILE :	0.165	0.017	0.275	0.022	0.035	0.027	0.052
2ND QUARTILE :	0.210	0.080	0.310	0.040	0.047	0.072	0.210
3RD QUARTILE :	0.370	0.150	0.425	0.062	0.050	0.097	0.300
VOL. WGT. MEAN :	0.316	0.114	0.391	0.055	0.048	0.098	0.240

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

1351

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
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STATION NAME : LAC LA CROIX/CUMULATIVE PRECIP. #33

PERIOD OF REPORT : JAN 2,85 TO DEC 31,85

PAGE : 2

	PHOSPHOR	MANGANSE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	9	9	9	9	9	9	9
MAXIMUM :	0.2430	15.00	3.80	10.27	260.90	14.40	0.80
MINIMUM :	0.0005	1.00	0.10	2.26	5.80	0.76	0.20
RANGE :	0.2425	14.00	3.70	8.01	255.10	13.64	0.60
ARITH. MEAN :	0.0378	5.56	0.79	4.40	81.00	4.22	0.32
ARITH. STD. DEV :	0.0782	4.39	1.25	2.46	77.56	4.17	0.21
GEOM. MEAN :	0.0076	4.23	0.30	3.95	51.69	2.92	0.28
GEOM. STD. DEV. :	7.1144	2.23	4.04	1.60	3.04	2.50	1.70
1ST QUARTILE :	0.0015	3.00	0.10	2.67	27.82	1.25	0.20
2ND QUARTILE :	0.0052	3.00	0.15	3.66	53.14	2.95	0.20
3RD QUARTILE :	0.0200	6.50	0.50	4.38	90.21	4.52	0.30
VOL. WGT. MEAN :	0.0190	6.87	0.44	3.75	82.57	4.62	0.28

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES :	9	9	9
MAXIMUM :	249.20	1.85	0.16
MINIMUM :	27.24	0.13	0.01
RANGE :	221.96	1.72	0.15
ARITH. MEAN :	85.79	1.05	0.06
ARITH. STD. DEV :	69.27	0.55	0.05
GEOM. MEAN :	67.60	0.86	0.04
GEOM. STD. DEV. :	2.04	2.21	2.98
1ST QUARTILE :	34.74	0.70	0.01
2ND QUARTILE :	65.13	0.84	0.03
3RD QUARTILE :	83.74	1.35	0.08
VOL. WGT. MEAN :	88.86	0.99	0.04

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
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STATION NAME : MATTAWA/CUMULATIVE PRECIP.

#22

PERIOD OF REPORT : JAN 2,85 TO DEC 3,85

PAGE : 1

	PRECIP.	CONDUCT.	PH	FREE H+	TOTAL H+	SULPHATE	NITRATE
	MM	UMHO/CM	LAB	LAB	GRAN	MG/L	AS N
				MG/L	MG/L		MG/L
# OF SAMPLES :	8	7	7	7	8	8	8
MAXIMUM :	104.8	43.3	4.84	0.0661	0.1040	4.50	0.810
MINIMUM :	24.0	15.0	4.18	0.0145	0.0290	0.95	0.060
RANGE :	80.8	28.3	0.66	0.0516	0.0750	3.55	0.750
ARITH. MEAN :	61.1	28.4	4.35	0.0490	0.0702	2.58	0.437
ARITH. STD. DEV :	24.0	9.5	0.23	0.0185	0.0249	1.13	0.257
GEOM. MEAN :	56.7	27.0	4.35	0.0445	0.0656	2.35	0.343
GEOM. STD. DEV. :	1.5	1.4	1.05	1.7111	1.5217	1.63	2.376
1ST QUARTILE :	49.6	17.3	4.18	0.0262	0.0514	1.80	0.215
2ND QUARTILE :	57.0	27.6	4.23	0.0499	0.0762	2.55	0.475
3RD QUARTILE :	73.6	33.0	4.39	0.0624	0.0866	3.25	0.625
VOL. WGT. MEAN :	*****	30.2	*****	0.0508	0.0745	2.89	0.473

	CALCIUM	CHLORIDE	KJELDAHL	MAGNESIM	POTASSIM	SODIUM	AMMONIUM
	MG/L	MG/L	AS N	MG/L	MG/L	MG/L	AS N
			MG/L				MG/L
# OF SAMPLES :	8	8	8	8	8	8	8
MAXIMUM :	0.650	0.220	1.020	0.245	0.185	0.140	0.675
MINIMUM :	0.050	0.025	0.150	0.002	0.002	0.010	0.000
RANGE :	0.600	0.195	0.870	0.243	0.183	0.130	0.675
ARITH. MEAN :	0.272	0.148	0.434	0.062	0.067	0.052	0.314
ARITH. STD. DEV :	0.201	0.068	0.336	0.076	0.073	0.044	0.263
GEOM. MEAN :	0.210	0.125	0.337	0.035	0.033	0.038	0.334
GEOM. STD. DEV. :	2.274	2.078	2.114	3.641	4.368	2.442	2.025
1ST QUARTILE :	0.140	0.100	0.185	0.027	0.016	0.020	0.135
2ND QUARTILE :	0.215	0.170	0.250	0.037	0.042	0.037	0.190
3RD QUARTILE :	0.385	0.200	0.715	0.060	0.117	0.077	0.595
VOL. WGT. MEAN :	0.292	0.157	0.494	0.062	0.068	0.060	0.366

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
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STATION NAME : MATTAWA/CUMULATIVE PRECIP.

#22

PERIOD OF REPORT : JAN 2,85 TO DEC 3,85

PAGE : 2

	PHOSPHOR	MANGANESE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	8	8	8	8	8	8	8
MAXIMUM :	0.0750	22.00	3.20	20.22	187.70	13.28	0.20
MINIMUM :	0.0015	2.00	0.10	3.57	12.51	0.78	0.20
RANGE :	0.0735	20.00	3.10	16.65	175.19	12.50	0.00
ARITH. MEAN :	0.0162	6.12	1.24	9.30	59.65	7.02	0.20
ARITH. STD. DEV :	0.0247	6.60	1.06	6.92	54.79	4.69	0.00
GEOM. MEAN :	0.0072	4.44	0.81	7.42	44.87	4.96	0.20
GEOM. STD. DEV. :	3.7898	2.17	3.08	2.01	2.20	2.85	1.00
1ST QUARTILE :	0.0022	2.50	0.50	4.28	30.20	2.55	0.20
2ND QUARTILE :	0.0065	4.00	0.90	5.65	44.49	7.84	0.20
3RD QUARTILE :	0.0180	6.00	1.90	15.36	63.81	10.67	0.20
VOL. WGT. MEAN :	0.0169	6.03	1.08	10.60	68.11	7.08	0.20
	ALUMINUM	COPPER	CADMIUM				
	UG/L	UG/L	UG/L				
# OF SAMPLES :	8	8	8				
MAXIMUM :	130.80	5.91	0.16				
MINIMUM :	17.02	0.60	0.02				
RANGE :	113.78	5.31	0.14				
ARITH. MEAN :	48.91	1.88	0.08				
ARITH. STD. DEV :	35.82	1.72	0.04				
GEOM. MEAN :	40.55	1.46	0.07				
GEOM. STD. DEV. :	1.89	2.03	1.92				
1ST QUARTILE :	27.35	0.90	0.05				
2ND QUARTILE :	42.08	1.41	0.08				
3RD QUARTILE :	52.28	1.97	0.10				
VOL. WGT. MEAN :	55.80	2.05	0.09				

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ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : MCKELLAR/CUMULATIVE PRECIP.

#21

PERIOD OF REPORT : JAN 2,85 TO DEC 31,85

PAGE : 1

	PRECIP.	CONDUCT.	PH	FREE H+	TOTAL H+	SULPHATE	NITRATE
	MM	UMHO/CM	LAB	LAB	GRAN	MG/L	AS N
				MG/L	MG/L		MG/L
# OF SAMPLES :	9	9	9	9	9	9	9
MAXIMUM :	126.9	56.4	4.78	0.0977	0.1430	4.40	1.230
MINIMUM :	42.0	11.6	4.01	0.0166	0.0412	0.80	0.230
RANGE :	84.9	44.8	0.77	0.0811	0.1018	3.60	1.000
ARITH. MEAN :	83.2	30.5	4.34	0.0503	0.0790	2.72	0.614
ARITH. STD. DEV :	27.9	12.1	0.21	0.0223	0.0274	1.43	0.270
GEOM. MEAN :	78.9	28.3	4.33	0.0458	0.0754	2.29	0.565
GEOM. STD. DEV. :	1.4	1.5	1.05	1.6152	1.3817	1.96	1.560
1ST QUARTILE :	62.1	24.1	4.23	0.0385	0.0688	1.13	0.475
2ND QUARTILE :	73.4	27.9	4.31	0.0452	0.0724	2.68	0.580
3RD QUARTILE :	96.8	33.8	4.38	0.0525	0.0766	3.68	0.640
VOL. WGT. MEAN :	*****	29.2	*****	0.0487	0.0772	2.60	0.576
	CALCIUM	CHLORIDE	KJELDAHL	MAGNESIM	POTASSIM	SODIUM	AMMONIUM
	MG/L	MG/L	AS N	MG/L	MG/L	MG/L	AS N
			MG/L				MG/L
# OF SAMPLES :	9	9	9	9	9	9	9
MAXIMUM :	0.620	0.900	0.870	0.110	0.080	0.635	0.725
MINIMUM :	0.000	0.080	0.190	0.002	0.000	0.008	0.130
RANGE :	0.620	0.820	0.680	0.108	0.080	0.627	0.595
ARITH. MEAN :	0.266	0.234	0.490	0.044	0.031	0.142	0.391
ARITH. STD. DEV :	0.219	0.254	0.271	0.039	0.027	0.191	0.229
GEOM. MEAN :	0.258	0.175	0.417	0.022	0.035	0.079	0.322
GEOM. STD. DEV. :	2.451	2.043	1.873	4.612	3.188	3.311	2.022
1ST QUARTILE :	0.065	0.095	0.200	0.004	0.005	0.050	0.135
2ND QUARTILE :	0.205	0.180	0.410	0.035	0.025	0.072	0.377
3RD QUARTILE :	0.380	0.190	0.660	0.060	0.040	0.117	0.482
VOL. WGT. MEAN :	0.240	0.230	0.459	0.040	0.031	0.137	0.366

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

1  
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ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
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STATION NAME : MCKELLAR/CUMULATIVE PRECIP.

#21

PERIOD OF REPORT : JAN 2,85 TO DEC 31,85

PAGE : 2

	PHOSPHOR	MANGANESE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	9	9	9	8	8	8	9
MAXIMUM :	0.0250	10.00	0.90	17.58	110.90	11.78	0.50
MINIMUM :	0.0000	0.50	0.10	3.16	8.16	0.74	0.20
RANGE :	0.0250	9.50	0.80	14.42	102.74	11.04	0.30
ARITH. MEAN :	0.0078	3.72	0.44	7.72	45.52	7.09	0.23
ARITH. STD. DEV :	0.0075	3.43	0.31	5.21	36.32	3.54	0.10
GEOM. MEAN :	0.0108	2.20	0.34	6.48	31.34	5.68	0.22
GEOM. STD. DEV. :	3.0060	3.35	2.32	1.85	2.73	2.42	1.36
1ST QUARTILE :	0.0015	0.50	0.15	3.94	10.95	5.01	0.20
2ND QUARTILE :	0.0070	2.50	0.35	6.29	42.46	7.31	0.20
3RD QUARTILE :	0.0090	4.50	0.55	10.29	69.13	9.78	0.20
VOL. WGT. MEAN :	0.0068	3.33	0.44	6.85	41.85	6.57	0.22
	ALUMINUM	COPPER	CADMIUM				
	UG/L	UG/L	UG/L				
# OF SAMPLES :	8	8	9				
MAXIMUM :	104.90	6.13	0.36				
MINIMUM :	12.85	0.26	0.01				
RANGE :	92.05	5.88	0.35				
ARITH. MEAN :	44.11	2.27	0.12				
ARITH. STD. DEV :	33.57	2.23	0.11				
GEOM. MEAN :	33.09	1.43	0.09				
GEOM. STD. DEV. :	2.30	2.98	2.73				
1ST QUARTILE :	14.89	0.89	0.06				
2ND QUARTILE :	39.13	1.38	0.07				
3RD QUARTILE :	63.54	3.63	0.12				
VOL. WGT. MEAN :	41.20	2.05	0.12				

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
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STATION NAME : MERLIN/CUMULATIVE PRECIP.

#02

PERIOD OF REPORT : JAN 2,85 TO DEC 31,85

PAGE : 1

	PRECIP.	CONDUCT.	PH	FREE H+	TOTAL H+	SULPHATE	NITRATE
	MM	UMHO/CM	LAB	LAB	GRAN	MG/L	AS N
				MG/L	MG/L		MG/L
# OF SAMPLES :	13	12	12	12	12	13	13
MAXIMUM :	153.0	46.8	4.91	0.0891	0.1240	5.95	1.190
MINIMUM :	10.9	23.9	4.05	0.0123	0.0423	2.60	0.340
RANGE :	142.1	22.9	0.86	0.0768	0.0817	3.35	0.850
ARITH. MEAN :	78.3	36.4	4.30	0.0552	0.0839	4.08	0.652
ARITH. STD. DEV :	51.3	7.2	0.23	0.0199	0.0211	1.20	0.258
GEOM. MEAN :	59.0	35.7	4.29	0.0502	0.0811	3.92	0.609
GEOM. STD. DEV. :	2.4	1.2	1.05	1.6902	1.3285	1.36	1.470
1ST QUARTILE :	30.5	29.7	4.20	0.0490	0.0730	2.77	0.440
2ND QUARTILE :	71.5	38.1	4.22	0.0596	0.0891	4.05	0.615
3RD QUARTILE :	104.5	41.4	4.31	0.0631	0.0919	4.82	0.745
VOL. WGT. MEAN :	*****	34.9	*****	0.0596	0.0876	3.58	0.539

	CALCIUM	CHLORIDE	KJELDAHL	MAGNESIUM	POTASSIUM	SODIUM	AMMONIUM
	MG/L	MG/L	AS N	MG/L	MG/L	MG/L	AS N
			MG/L				MG/L
# OF SAMPLES :	11	12	12	11	11	11	13
MAXIMUM :	1.840	5.050	0.920	0.350	0.225	3.350	0.745
MINIMUM :	0.100	0.080	0.200	0.020	0.008	0.020	0.170
RANGE :	1.740	4.970	0.720	0.330	0.217	3.330	0.575
ARITH. MEAN :	0.638	0.604	0.527	0.117	0.066	0.360	0.408
ARITH. STD. DEV :	0.497	1.404	0.219	0.100	0.066	0.992	0.191
GEOM. MEAN :	0.475	0.236	0.480	0.084	0.039	0.075	0.364
GEOM. STD. DEV. :	2.364	2.919	1.604	2.376	3.302	4.013	1.675
1ST QUARTILE :	0.195	0.145	0.330	0.035	0.008	0.030	0.227
2ND QUARTILE :	0.470	0.170	0.530	0.082	0.055	0.050	0.400
3RD QUARTILE :	0.800	0.290	0.705	0.145	0.070	0.108	0.480
VOL. WGT. MEAN :	0.416	0.308	0.441	0.072	0.042	0.148	0.356

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

41

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
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STATION NAME : MERLIN/CUMULATIVE PRECIP.

#02

PERIOD OF REPORT : JAN 2,85 TO DEC 31,85

PAGE : 2

	PHOSPHOR	MANGANSE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	12	12	12	13	11	13	13
MAXIMUM :	0.0240	11.00	2.40	35.27	356.00	21.45	0.40
MINIMUM :	0.0005	0.50	0.10	1.45	9.82	1.38	0.20
RANGE :	0.0235	10.50	2.30	33.82	346.18	20.07	0.20
ARITH. MEAN :	0.0108	4.37	0.62	10.34	94.72	6.96	0.26
ARITH. STD. DEV :	0.0071	3.37	0.67	9.38	109.97	5.10	0.10
GEOM. MEAN :	0.0076	3.05	0.40	7.49	52.79	5.59	0.25
GEOM. STD. DEV. :	2.9992	2.66	2.70	2.31	3.13	2.02	1.40
1ST QUARTILE :	0.0050	1.50	0.20	4.51	20.23	3.45	0.20
2ND QUARTILE :	0.0110	4.00	0.35	6.67	37.86	5.93	0.20
3RD QUARTILE :	0.0155	6.00	0.95	9.75	128.03	8.18	0.30
VOL. WGT. MEAN :	0.0082	3.01	0.64	6.11	51.24	5.56	0.24

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES :	11	13	13
MAXIMUM :	341.80	9.59	0.43
MINIMUM :	9.36	0.14	0.01
RANGE :	332.44	9.45	0.42
ARITH. MEAN :	91.00	1.68	0.11
ARITH. STD. DEV :	104.26	2.48	0.11
GEOM. MEAN :	54.57	0.92	0.08
GEOM. STD. DEV. :	2.85	2.97	2.45
1ST QUARTILE :	27.52	0.41	0.05
2ND QUARTILE :	36.87	0.80	0.06
3RD QUARTILE :	102.21	1.64	0.10
VOL. WGT. MEAN :	51.69	0.83	0.08

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
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STATION NAME : MOONBEAM/CUMULATIVE PRECIP. #27

PERIOD OF REPORT : JAN 3,85 TO DEC 31,85

PAGE : 1

	PRECIP.	CONDUCT.	PH	FREE H+	TOTAL H+	SULPHATE	NITRATE
	MM	UMHO/CM	LAB	LAB	GRAN	MG/L	AS N
				MG/L	MG/L		MG/L
# OF SAMPLES :	12	12	10	10	10	12	12
MAXIMUM :	72.0	59.1	5.20	0.0832	0.1020	4.55	0.570
MINIMUM :	12.0	10.4	4.08	0.0063	0.0260	1.00	0.140
RANGE :	60.0	48.7	1.12	0.0769	0.0760	3.55	0.430
ARITH. MEAN :	44.5	21.9	4.61	0.0303	0.0517	2.11	0.322
ARITH. STD. DEV :	19.3	14.1	0.31	0.0209	0.0204	1.18	0.156
GEOM. MEAN :	39.8	19.3	4.60	0.0247	0.0486	1.87	0.288
GEOM. STD. DEV. :	1.7	1.6	1.07	2.0224	1.4384	1.63	1.638
1ST QUARTILE :	33.3	15.2	4.47	0.0153	0.0379	1.32	0.200
2ND QUARTILE :	40.5	17.4	4.53	0.0295	0.0512	1.63	0.250
3RD QUARTILE :	62.0	18.9	4.64	0.0324	0.0546	2.63	0.460
VOL. WGT. MEAN :	*****	19.3	*****	0.0289	0.0508	1.96	0.299

	CALCIUM	CHLORIDE	KJELDAHL	MAGNESIM	POTASSIM	SODIUM	AMMONIUM
	MG/L	MG/L	AS N	MG/L	MG/L	MG/L	AS N
			MG/L				MG/L
# OF SAMPLES :	10	12	12	11	11	11	12
MAXIMUM :	0.590	0.690	0.710	0.175	0.070	0.270	0.510
MINIMUM :	0.050	0.000	0.090	0.005	0.002	0.002	0.020
RANGE :	0.540	0.690	0.620	0.170	0.067	0.267	0.490
ARITH. MEAN :	0.239	0.164	0.328	0.054	0.026	0.077	0.181
ARITH. STD. DEV :	0.172	0.209	0.223	0.046	0.021	0.080	0.151
GEOM. MEAN :	0.182	0.109	0.264	0.039	0.017	0.041	0.130
GEOM. STD. DEV. :	2.275	3.619	2.013	2.477	3.023	3.884	2.478
1ST QUARTILE :	0.080	0.025	0.145	0.022	0.005	0.015	0.082
2ND QUARTILE :	0.215	0.100	0.250	0.035	0.022	0.037	0.130
3RD QUARTILE :	0.340	0.205	0.525	0.065	0.037	0.108	0.235
VOL. WGT. MEAN :	0.225	0.120	0.292	0.050	0.026	0.074	0.173

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

43

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
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STATION NAME : MOONBEAM/CUMULATIVE PRECIP.

#27

PERIOD OF REPORT : JAN 3,85 TO DEC 31,85

PAGE : 2

	PHOSPHOR	MANGANESE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	12	11	11	11	10	11	11
MAXIMUM :	0.0440	9.00	3.80	9.09	81.86	15.44	0.50
MINIMUM :	0.0005	0.50	0.10	1.12	6.31	0.94	0.00
RANGE :	0.0435	8.50	3.70	7.98	75.55	14.50	0.50
ARITH. MEAN :	0.0099	4.05	0.74	4.69	33.56	7.55	0.26
ARITH. STD. DEV :	0.0115	2.72	1.08	3.12	21.12	4.73	0.14
GEOM. MEAN :	0.0058	2.98	0.36	3.67	27.31	5.53	0.30
GEOM. STD. DEV. :	3.2877	2.54	3.44	2.15	2.09	2.66	1.48
1ST QUARTILE :	0.0038	1.00	0.10	1.69	16.94	1.77	0.20
2ND QUARTILE :	0.0080	3.50	0.35	3.01	30.80	7.57	0.20
3RD QUARTILE :	0.0105	6.00	0.75	7.40	40.47	10.07	0.40
VOL. WGT. MEAN :	0.0082	3.77	0.73	4.39	33.06	7.20	0.26

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES :	11	10	10
MAXIMUM :	162.90	3.95	0.21
MINIMUM :	12.31	0.24	0.03
RANGE :	150.59	3.71	0.18
ARITH. MEAN :	50.48	1.47	0.09
ARITH. STD. DEV :	44.21	1.23	0.06
GEOM. MEAN :	37.21	1.01	0.08
GEOM. STD. DEV. :	2.25	2.63	1.97
1ST QUARTILE :	17.03	0.34	0.04
2ND QUARTILE :	32.50	1.29	0.06
3RD QUARTILE :	69.94	1.84	0.12
VOL. WGT. MEAN :	46.48	1.36	0.08

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
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STATION NAME : MOOSONEE/CUMULATIVE PRECIP. #39

PERIOD OF REPORT : DEC 1,85 TO DEC 29,85

PAGE : 1

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	1	1	1	1	1	1	1
MAXIMUM :	29.7	8.5	5.26	0.0055	0.0255	0.60	0.200
MINIMUM :	29.7	8.5	5.26	0.0055	0.0255	0.60	0.200
RANGE :	0.0	0.0	0.00	0.0000	0.0000	0.00	0.000
ARITH. MEAN :	*****	*****	*****	*****	*****	*****	*****
ARITH. STD. DEV :	*****	*****	*****	*****	*****	*****	*****
GEOM. MEAN :	*****	*****	*****	*****	*****	*****	*****
GEOM. STD. DEV. :	*****	*****	*****	*****	*****	*****	*****
1ST QUARTILE :	*****	*****	*****	*****	*****	*****	*****
2ND QUARTILE :	*****	*****	*****	*****	*****	*****	*****
3RD QUARTILE :	*****	*****	*****	*****	*****	*****	*****
VOL. WGT. MEAN :	*****	*****	*****	*****	*****	*****	*****

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	1	1	1	1	1	1	1
MAXIMUM :	0.270	0.260	0.110	0.045	0.025	0.185	0.002
MINIMUM :	0.270	0.260	0.110	0.045	0.025	0.185	0.002
RANGE :	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ARITH. MEAN :	*****	*****	*****	*****	*****	*****	*****
ARITH. STD. DEV :	*****	*****	*****	*****	*****	*****	*****
GEOM. MEAN :	*****	*****	*****	*****	*****	*****	*****
GEOM. STD. DEV. :	*****	*****	*****	*****	*****	*****	*****
1ST QUARTILE :	*****	*****	*****	*****	*****	*****	*****
2ND QUARTILE :	*****	*****	*****	*****	*****	*****	*****
3RD QUARTILE :	*****	*****	*****	*****	*****	*****	*****
VOL. WGT. MEAN :	*****	*****	*****	*****	*****	*****	*****

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : MOOSONEE/CUMULATIVE PRECIP.

#39

PERIOD OF REPORT : DEC 1,85 TO DEC 29,85

PAGE : 2

	PHOSPHOR	MANGANESE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	1	1	1	0	1	1	1
MAXIMUM :	0.0100	1.00	0.50	*****	58.45	8.15	0.20
MINIMUM :	0.0100	1.00	0.50	*****	58.45	8.15	0.20
RANGE :	0.0000	0.00	0.00	*****	0.00	0.00	0.00
ARITH. MEAN :	*****	*****	*****	*****	*****	*****	*****
ARITH. STD. DEV :	*****	*****	*****	*****	*****	*****	*****
GEOM. MEAN :	*****	*****	*****	*****	*****	*****	*****
GEOM. STD. DEV. :	*****	*****	*****	*****	*****	*****	*****
1ST QUARTILE :	*****	*****	*****	*****	*****	*****	*****
2ND QUARTILE :	*****	*****	*****	*****	*****	*****	*****
3RD QUARTILE :	*****	*****	*****	*****	*****	*****	*****
VOL. WGT. MEAN :	*****	*****	*****	*****	*****	*****	*****

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES :	1	1	1
MAXIMUM :	67.72	2.93	0.76
MINIMUM :	67.72	2.93	0.76
RANGE :	0.00	0.00	0.00
ARITH. MEAN :	*****	*****	*****
ARITH. STD. DEV :	*****	*****	*****
GEOM. MEAN :	*****	*****	*****
GEOM. STD. DEV. :	*****	*****	*****
1ST QUARTILE :	*****	*****	*****
2ND QUARTILE :	*****	*****	*****
3RD QUARTILE :	*****	*****	*****
VOL. WGT. MEAN :	*****	*****	*****

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
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STATION NAME : OTTER ISLAND/CUMULATIVE PRECIP. #38

PERIOD OF REPORT : APR 23,85 TO NOV 5,85

PAGE : 1

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	7	7	7	7	7	7	7
MAXIMUM :	166.9	28.9	4.66	0.0501	0.0863	3.50	0.480
MINIMUM :	41.0	14.3	4.30	0.0219	0.0419	1.40	0.210
RANGE :	125.9	14.6	0.36	0.0282	0.0444	2.10	0.270
ARITH. MEAN :	93.0	22.2	4.48	0.0345	0.0597	2.50	0.341
ARITH. STD. DEV :	48.3	5.1	0.13	0.0099	0.0145	0.73	0.101
GEOM. MEAN :	82.6	21.7	4.48	0.0332	0.0583	2.40	0.329
GEOM. STD. DEV. :	1.7	1.3	1.03	1.3443	1.2680	1.37	1.346
1ST QUARTILE :	47.5	15.9	4.35	0.0229	0.0437	1.72	0.245
2ND QUARTILE :	68.0	21.5	4.43	0.0337	0.0593	2.22	0.295
3RD QUARTILE :	126.6	25.8	4.57	0.0389	0.0628	3.05	0.415
VOL. WGT. MEAN :	*****	21.9	*****	0.0338	0.0589	2.36	0.327
	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	7	7	7	7	7	7	7
MAXIMUM :	0.450	0.100	0.670	0.100	0.090	0.070	0.580
MINIMUM :	0.060	0.000	0.210	0.008	0.008	0.008	0.185
RANGE :	0.390	0.100	0.460	0.092	0.082	0.062	0.395
ARITH. MEAN :	0.243	0.049	0.404	0.042	0.031	0.033	0.367
ARITH. STD. DEV :	0.127	0.038	0.166	0.031	0.029	0.023	0.149
GEOM. MEAN :	0.209	0.074	0.375	0.033	0.022	0.025	0.340
GEOM. STD. DEV. :	1.910	2.095	1.531	2.266	2.458	2.325	1.550
1ST QUARTILE :	0.120	0.012	0.235	0.016	0.008	0.009	0.207
2ND QUARTILE :	0.195	0.027	0.350	0.030	0.022	0.025	0.327
3RD QUARTILE :	0.310	0.080	0.495	0.052	0.035	0.047	0.460
VOL. WGT. MEAN :	0.219	0.056	0.363	0.035	0.023	0.034	0.322

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH



ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
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STATION NAME : OTTER ISLAND/CUMULATIVE PRECIP.

#38

PERIOD OF REPORT : APR 23,85 TO NOV 5,85

PAGE : 2

	PHOSPHOR	MANGANSE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	7	7	7	7	7	7	7
MAXIMUM :	0.0100	8.00	1.00	15.82	107.90	7.18	0.50
MINIMUM :	0.0010	0.50	0.10	2.19	8.02	1.16	0.20
RANGE :	0.0090	7.50	0.90	13.63	99.88	6.02	0.30
ARITH. MEAN :	0.0044	3.79	0.30	7.27	41.64	4.51	0.24
ARITH. STD. DEV :	0.0036	2.71	0.33	5.14	35.20	2.58	0.11
GEOM. MEAN :	0.0031	2.85	0.21	5.69	29.05	3.62	0.23
GEOM. STD. DEV. :	2.4662	2.50	2.38	2.19	2.67	2.23	1.41
1ST QUARTILE :	0.0012	1.25	0.10	2.26	8.11	1.18	0.20
2ND QUARTILE :	0.0020	3.00	0.15	4.88	31.94	4.39	0.20
3RD QUARTILE :	0.0070	5.00	0.30	10.39	51.74	6.62	0.20
VOL. WGT. MEAN :	0.0048	3.18	0.33	6.24	33.90	4.13	0.25
	ALUMINUM	COPPER	CADMIUM				
	UG/L	UG/L	UG/L				
# OF SAMPLES :	7	7	7				
MAXIMUM :	146.10	2.94	0.46				
MINIMUM :	11.62	0.16	0.02				
RANGE :	134.48	2.78	0.44				
ARITH. MEAN :	50.24	1.01	0.13				
ARITH. STD. DEV :	45.49	1.17	0.16				
GEOM. MEAN :	36.37	0.55	0.07				
GEOM. STD. DEV. :	2.42	3.29	3.17				
1ST QUARTILE :	11.96	0.16	0.02				
2ND QUARTILE :	39.42	0.34	0.05				
3RD QUARTILE :	51.41	1.55	0.14				
VOL. WGT. MEAN :	43.83	0.92	0.13				

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
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STATION NAME : PALMERSTON/CUMULATIVE PRECIP. #08

PERIOD OF REPORT : DEC 31,84 TO DEC 31,85

PAGE : 1

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	13	12	12	12	12	12	12
MAXIMUM :	225.0	54.6	5.77	0.0813	0.1250	6.40	1.450
MINIMUM :	15.0	10.0	4.09	0.0017	0.0243	1.10	0.280
RANGE :	210.0	44.6	1.68	0.0796	0.1007	5.30	1.170
ARITH. MEAN :	79.5	28.4	4.55	0.0383	0.0662	3.30	0.572
ARITH. STD. DEV. :	52.5	12.4	0.44	0.0233	0.0291	1.41	0.311
GEOM. MEAN :	65.2	26.1	4.53	0.0285	0.0605	3.02	0.518
GEOM. STD. DEV. :	2.0	1.6	1.10	2.7781	1.5682	1.58	1.545
1ST QUARTILE :	48.5	21.2	4.25	0.0237	0.0497	2.45	0.400
2ND QUARTILE :	69.0	25.6	4.48	0.0330	0.0582	3.05	0.485
3RD QUARTILE :	92.5	31.0	4.63	0.0562	0.0791	4.25	0.615
VOL. WGT. MEAN :	*****	26.4	*****	0.0378	0.0630	2.98	0.485

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	12	12	12	12	11	12	12
MAXIMUM :	0.910	0.560	1.340	0.195	0.060	0.245	1.150
MINIMUM :	0.080	0.070	0.250	0.025	0.002	0.010	0.180
RANGE :	0.830	0.490	1.090	0.170	0.057	0.235	0.970
ARITH. MEAN :	0.407	0.168	0.672	0.086	0.034	0.068	0.590
ARITH. STD. DEV. :	0.261	0.131	0.400	0.056	0.019	0.061	0.351
GEOM. MEAN :	0.321	0.141	0.577	0.069	0.027	0.051	0.503
GEOM. STD. DEV. :	2.174	1.758	1.765	2.057	2.466	2.201	1.805
1ST QUARTILE :	0.160	0.095	0.380	0.037	0.020	0.032	0.337
2ND QUARTILE :	0.375	0.130	0.500	0.077	0.027	0.057	0.470
3RD QUARTILE :	0.600	0.185	0.980	0.130	0.050	0.080	0.892
VOL. WGT. MEAN :	0.324	0.133	0.591	0.066	0.030	0.051	0.517

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
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STATION NAME : PALMERSTON/CUMULATIVE PRECIP.

#08

PERIOD OF REPORT : DEC 31,84 TO DEC 31,85

PAGE : 2

	PHOSPHOR	MANGANSE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	12	12	12	12	12	12	12
MAXIMUM :	0.1000	10.00	1.10	20.28	132.20	16.70	0.60
MINIMUM :	0.0010	0.50	0.10	1.37	12.68	2.41	0.20
RANGE :	0.0990	9.50	1.00	18.91	119.52	14.28	0.40
ARITH. MEAN :	0.0158	4.37	0.58	8.72	58.14	7.28	0.25
ARITH. STD. DEV :	0.0269	3.02	0.43	5.10	35.98	4.09	0.12
GEOM. MEAN :	0.0081	3.16	0.42	7.27	46.70	6.36	0.23
GEOM. STD. DEV. :	3.0897	2.59	2.51	1.99	2.11	1.72	1.43
1ST QUARTILE :	0.0060	1.50	0.25	5.56	28.09	4.82	0.20
2ND QUARTILE :	0.0075	4.50	0.35	7.62	60.34	6.02	0.20
3RD QUARTILE :	0.0135	6.50	1.05	10.81	75.65	9.04	0.20
VOL. WGT. MEAN :	0.0183	3.38	0.67	7.03	46.90	6.00	0.22
	ALUMINUM	COPPER	CADMIUM				
	UG/L	UG/L	UG/L				
# OF SAMPLES :	12	12	12				
MAXIMUM :	109.40	3.40	0.42				
MINIMUM :	12.57	0.14	0.03				
RANGE :	96.83	3.26	0.39				
ARITH. MEAN :	55.03	1.51	0.17				
ARITH. STD. DEV :	35.56	1.01	0.15				
GEOM. MEAN :	44.51	1.15	0.12				
GEOM. STD. DEV. :	2.02	2.41	2.49				
1ST QUARTILE :	27.03	0.75	0.05				
2ND QUARTILE :	43.36	1.25	0.08				
3RD QUARTILE :	90.39	2.08	0.30				
VOL. WGT. MEAN :	41.38	1.28	0.14				

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
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STATION NAME : PICKLE LAKE/CUMULATIVE PRECIP.

#36

PERIOD OF REPORT : JAN 2,85 TO DEC 31,85

PAGE : 1

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	11	11	10	10	11	11	11
MAXIMUM :	173.2	10.9	6.23	0.0135	0.0361	1.15	0.300
MINIMUM :	10.8	4.1	4.87	0.0006	0.0109	0.35	0.025
RANGE :	162.4	6.8	1.36	0.0129	0.0252	0.80	0.275
ARITH. MEAN :	80.7	7.5	5.24	0.0073	0.0256	0.71	0.130
ARITH. STD. DEV :	55.1	2.0	0.39	0.0039	0.0074	0.28	0.083
GEOM. MEAN :	57.6	7.3	5.22	0.0058	0.0244	0.65	0.102
GEOM. STD. DEV. :	2.7	1.3	1.07	2.4508	1.4079	1.54	2.257
1ST QUARTILE :	17.1	5.8	4.95	0.0043	0.0196	0.38	0.047
2ND QUARTILE :	80.9	6.9	5.15	0.0071	0.0252	0.67	0.115
3RD QUARTILE :	121.0	8.7	5.30	0.0093	0.0298	0.92	0.170
VOL. WGT. MEAN :	*****	7.0	*****	0.0076	0.0248	0.66	0.103
	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	11	11	11	11	11	11	11
MAXIMUM :	1.670	0.350	0.540	0.255	0.115	0.310	0.265
MINIMUM :	0.080	0.020	0.030	0.002	0.008	0.002	0.000
RANGE :	1.590	0.330	0.510	0.252	0.107	0.308	0.265
ARITH. MEAN :	0.314	0.138	0.241	0.050	0.038	0.102	0.096
ARITH. STD. DEV :	0.475	0.116	0.148	0.076	0.032	0.106	0.095
GEOM. MEAN :	0.178	0.090	0.193	0.021	0.026	0.057	0.119
GEOM. STD. DEV. :	2.590	2.876	2.201	3.947	2.596	3.773	3.334
1ST QUARTILE :	0.085	0.022	0.115	0.005	0.009	0.027	0.002
2ND QUARTILE :	0.115	0.085	0.200	0.020	0.032	0.057	0.062
3RD QUARTILE :	0.195	0.200	0.330	0.035	0.047	0.110	0.142
VOL. WGT. MEAN :	0.344	0.103	0.235	0.048	0.033	0.061	0.093

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
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STATION NAME : PICKLE LAKE/CUMULATIVE PRECIP. #36

PERIOD OF REPORT : JAN 2,85 TO DEC 31,85

PAGE : 2

	PHOSPHOR	MANGANSE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	11	10	10	10	10	10	10
MAXIMUM :	0.0630	41.00	4.40	28.75	392.30	13.99	1.40
MINIMUM :	0.0015	0.50	0.10	0.63	3.09	1.26	0.20
RANGE :	0.0615	40.50	4.30	28.12	389.20	12.73	1.20
ARITH. MEAN :	0.0166	6.65	0.75	5.60	82.03	5.11	0.37
ARITH. STD. DEV :	0.0179	12.40	1.34	8.39	120.77	4.36	0.39
GEOM. MEAN :	0.0092	2.56	0.29	3.03	34.38	3.61	0.28
GEOM. STD. DEV. :	3.5302	3.71	3.81	2.94	4.27	2.45	2.00
1ST QUARTILE :	0.0018	1.00	0.10	1.40	9.58	1.44	0.20
2ND QUARTILE :	0.0110	2.00	0.20	2.38	39.95	3.35	0.20
3RD QUARTILE :	0.0210	4.00	0.50	5.14	62.85	7.07	0.20
VOL. WGT. MEAN :	0.0173	7.86	1.23	3.02	92.32	4.59	0.39

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES :	10	10	10
MAXIMUM :	233.50	30.17	0.12
MINIMUM :	7.93	0.34	0.01
RANGE :	225.57	29.83	0.11
ARITH. MEAN :	62.05	4.35	0.05
ARITH. STD. DEV :	74.61	9.16	0.04
GEOM. MEAN :	38.04	1.47	0.04
GEOM. STD. DEV. :	2.67	3.83	2.58
1ST QUARTILE :	23.35	0.48	0.01
2ND QUARTILE :	28.96	1.08	0.06
3RD QUARTILE :	41.71	2.40	0.06
VOL. WGT. MEAN :	58.45	2.14	0.05

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
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STATION NAME : PORT STANLEY/CUMULATIVE PRECIP. #03

PERIOD OF REPORT : JAN 2,85 TO DEC 31,85

PAGE : 1

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	13	13	12	12	12	13	13
MAXIMUM :	220.0	75.1	4.86	0.1259	0.1840	8.30	1.140
MINIMUM :	13.0	19.5	3.90	0.0138	0.0396	2.70	0.430
RANGE :	207.0	55.6	0.96	0.1121	0.1444	5.60	0.710
ARITH. MEAN :	83.4	37.5	4.27	0.0612	0.0929	4.20	0.709
ARITH. STD. DEV :	56.5	13.9	0.24	0.0287	0.0359	1.69	0.232
GEOM. MEAN :	64.5	35.5	4.26	0.0542	0.0871	3.95	0.676
GEOM. STD. DEV. :	2.3	1.4	1.06	1.7474	1.4593	1.43	1.374
1ST QUARTILE :	37.0	28.4	4.15	0.0427	0.0737	2.77	0.525
2ND QUARTILE :	69.5	35.1	4.21	0.0611	0.0916	3.65	0.600
3RD QUARTILE :	106.0	39.7	4.37	0.0708	0.1005	4.25	0.835
VOL. WGT. MEAN :	*****	36.5	*****	0.0640	0.0933	3.73	0.614

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	11	13	13	12	12	12	13
MAXIMUM :	2.120	0.510	1.340	0.410	0.105	0.190	1.100
MINIMUM :	0.160	0.100	0.150	0.025	0.000	0.025	0.145
RANGE :	1.960	0.410	1.190	0.385	0.105	0.165	0.955
ARITH. MEAN :	0.653	0.229	0.585	0.141	0.049	0.075	0.472
ARITH. STD. DEV :	0.585	0.136	0.305	0.136	0.040	0.054	0.269
GEOM. MEAN :	0.476	0.198	0.512	0.095	0.046	0.062	0.403
GEOM. STD. DEV. :	2.284	1.722	1.765	2.499	3.068	1.863	1.832
1ST QUARTILE :	0.195	0.125	0.330	0.045	0.008	0.045	0.233
2ND QUARTILE :	0.440	0.170	0.600	0.080	0.045	0.055	0.478
3RD QUARTILE :	0.780	0.245	0.685	0.197	0.087	0.085	0.565
VOL. WGT. MEAN :	0.415	0.186	0.479	0.081	0.031	0.057	0.396

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
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STATION NAME : PORT STANLEY/CUMULATIVE PRECIP. #03

PERIOD OF REPORT : JAN 2,85 TO DEC 31,85

PAGE : 2

	PHOSPHOR	MANGANSE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	13	13	13	13	13	13	13
MAXIMUM :	0.1230	30.00	2.10	22.39	885.70	18.88	1.40
MINIMUM :	0.0000	1.00	0.10	1.16	15.04	1.17	0.20
RANGE :	0.1230	29.00	2.00	21.23	870.66	17.70	1.20
ARITH. MEAN :	0.0196	7.92	0.75	9.89	145.60	7.80	0.34
ARITH. STD. DEV :	0.0339	8.15	0.67	6.92	234.13	6.12	0.34
GEOM. MEAN :	0.0121	4.97	0.46	7.56	67.42	5.74	0.27
GEOM. STD. DEV. :	4.0533	2.85	3.08	2.29	3.49	2.34	1.83
1ST QUARTILE :	0.0018	2.00	0.15	4.19	19.03	2.82	0.20
2ND QUARTILE :	0.0070	5.00	0.60	7.33	68.93	5.54	0.20
3RD QUARTILE :	0.0100	8.50	1.05	12.11	128.75	9.04	0.20
VOL. WGT. MEAN :	0.0101	4.85	0.67	7.02	80.41	5.98	0.27

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES :	13	13	13
MAXIMUM :	892.00	4.31	0.35
MINIMUM :	22.72	0.12	0.03
RANGE :	869.28	4.19	0.32
ARITH. MEAN :	151.93	1.88	0.10
ARITH. STD. DEV :	233.46	1.37	0.08
GEOM. MEAN :	80.69	1.25	0.08
GEOM. STD. DEV. :	2.96	3.02	1.97
1ST QUARTILE :	28.65	0.59	0.06
2ND QUARTILE :	88.17	1.70	0.06
3RD QUARTILE :	123.65	2.66	0.11
VOL. WGT. MEAN :	86.04	1.29	0.08

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
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STATION NAME : QUETICO CENTRE/CUMULATIVE PRECIP. #32

PERIOD OF REPORT : JAN 2,85 TO DEC 31,85

PAGE : 1

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	12	12	12	12	12	12	12
MAXIMUM :	211.0	16.7	6.50	0.0288	0.0575	1.60	0.440
MINIMUM :	8.9	6.4	4.54	0.0003	0.0205	0.55	0.120
RANGE :	202.1	10.3	1.96	0.0285	0.0370	1.05	0.320
ARITH. MEAN :	74.8	10.8	5.16	0.0111	0.0341	1.05	0.252
ARITH. STD. DEV :	63.9	3.5	0.58	0.0081	0.0107	0.39	0.097
GEOM. MEAN :	51.6	10.3	5.13	0.0069	0.0326	0.98	0.236
GEOM. STD. DEV. :	2.6	1.4	1.11	3.8290	1.3514	1.47	1.458
1ST QUARTILE :	23.7	8.6	4.79	0.0065	0.0281	0.67	0.180
2ND QUARTILE :	61.1	8.9	5.02	0.0097	0.0308	1.00	0.230
3RD QUARTILE :	110.0	14.7	5.19	0.0162	0.0405	1.38	0.300
VOL. WGT. MEAN :	*****	9.5	*****	0.0085	0.0304	1.07	0.209

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	12	12	12	12	12	12	12
MAXIMUM :	0.430	0.380	0.700	0.070	0.085	0.330	0.450
MINIMUM :	0.100	0.025	0.060	0.005	0.000	0.040	0.000
RANGE :	0.330	0.355	0.640	0.065	0.085	0.290	0.450
ARITH. MEAN :	0.233	0.143	0.365	0.031	0.035	0.090	0.225
ARITH. STD. DEV :	0.112	0.088	0.228	0.022	0.030	0.080	0.153
GEOM. MEAN :	0.208	0.120	0.290	0.022	0.035	0.073	0.227
GEOM. STD. DEV. :	1.665	1.937	2.178	2.696	2.912	1.823	2.080
1ST QUARTILE :	0.120	0.085	0.190	0.010	0.006	0.047	0.105
2ND QUARTILE :	0.230	0.140	0.345	0.030	0.025	0.062	0.212
3RD QUARTILE :	0.290	0.165	0.560	0.047	0.062	0.100	0.358
VOL. WGT. MEAN :	0.247	0.108	0.372	0.032	0.036	0.063	0.260

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH



ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
-----

STATION NAME : QUETICO CENTRE/CUMULATIVE PRECIP. #32

PERIOD OF REPORT : JAN 2,85 TO DEC 31,85

PAGE : 2

	PHOSPHOR	MANGANESE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	12	11	11	11	11	11	11
MAXIMUM :	0.0530	8.00	1.00	7.56	104.60	9.42	0.20
MINIMUM :	0.0015	1.00	0.10	0.94	8.33	0.72	0.20
RANGE :	0.0515	7.00	0.90	6.63	96.27	8.70	0.00
ARITH. MEAN :	0.0165	3.64	0.34	3.47	41.28	2.85	0.20
ARITH. STD. DEV :	0.0148	2.25	0.29	2.28	27.49	2.50	0.00
GEOM. MEAN :	0.0107	3.05	0.24	2.78	33.52	2.17	0.20
GEOM. STD. DEV. :	2.9493	1.88	2.33	2.07	2.03	2.12	1.00
1ST QUARTILE :	0.0060	2.00	0.10	1.10	17.69	1.08	0.20
2ND QUARTILE :	0.0140	2.50	0.20	2.95	33.33	2.08	0.20
3RD QUARTILE :	0.0215	4.50	0.50	4.41	50.85	3.37	0.20
VOL. WGT. MEAN :	0.0107	3.68	0.27	2.45	35.56	2.28	0.20

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES :	11	11	11
MAXIMUM :	105.50	2.43	0.08
MINIMUM :	11.81	0.12	0.01
RANGE :	93.69	2.31	0.07
ARITH. MEAN :	48.33	0.95	0.05
ARITH. STD. DEV :	29.51	0.72	0.02
GEOM. MEAN :	39.69	0.67	0.04
GEOM. STD. DEV. :	2.01	2.65	1.80
1ST QUARTILE :	17.04	0.23	0.03
2ND QUARTILE :	44.15	0.75	0.04
3RD QUARTILE :	55.71	1.48	0.05
VOL. WGT. MEAN :	43.65	0.83	0.04

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : SHALLOW LAKE/CUMULATIVE PRECIP. #09

PERIOD OF REPORT : JAN 2,85 TO DEC 31,85

PAGE : 1

	PRECIP.	CONDUCT.	PH	FREE H+	TOTAL H+	SULPHATE	NITRATE
	MM	UMHO/CM	LAB	LAB	GRAN	MG/L	AS N
				MG/L	MG/L		MG/L
# OF SAMPLES :	13	11	11	11	11	11	11
MAXIMUM :	176.0	44.4	4.52	0.0692	0.1060	5.00	0.990
MINIMUM :	47.0	23.8	4.16	0.0302	0.0555	1.70	0.310
RANGE :	129.0	20.6	0.36	0.0390	0.0505	3.30	0.680
ARITH. MEAN :	90.5	32.0	4.32	0.0493	0.0777	3.33	0.575
ARITH. STD. DEV :	34.9	7.0	0.12	0.0127	0.0169	1.08	0.182
GEOM. MEAN :	84.7	31.3	4.32	0.0478	0.0760	3.16	0.549
GEOM. STD. DEV. :	1.5	1.2	1.03	1.3118	1.2405	1.42	1.370
1ST QUARTILE :	59.0	25.1	4.20	0.0362	0.0604	2.10	0.400
2ND QUARTILE :	90.5	30.3	4.30	0.0457	0.0759	3.27	0.555
3RD QUARTILE :	106.0	34.5	4.37	0.0576	0.0836	4.13	0.650
VOL. WGT. MEAN :	*****	31.1	*****	0.0499	0.0772	3.15	0.540

	CALCIUM	CHLORIDE	KJELDAHL	MAGNESIM	POTASSIM	SODIUM	AMMONIUM
	MG/L	MG/L	AS N	MG/L	MG/L	MG/L	AS N
			MG/L				MG/L
# OF SAMPLES :	10	11	11	10	10	10	11
MAXIMUM :	0.730	0.270	0.910	0.140	0.105	0.120	0.785
MINIMUM :	0.150	0.030	0.240	0.020	0.000	0.010	0.160
RANGE :	0.580	0.240	0.670	0.120	0.105	0.110	0.625
ARITH. MEAN :	0.409	0.131	0.576	0.072	0.030	0.054	0.479
ARITH. STD. DEV :	0.212	0.066	0.246	0.038	0.031	0.040	0.208
GEOM. MEAN :	0.352	0.114	0.523	0.062	0.034	0.042	0.430
GEOM. STD. DEV. :	1.845	1.801	1.626	1.823	2.594	2.239	1.675
1ST QUARTILE :	0.165	0.075	0.300	0.040	0.009	0.025	0.257
2ND QUARTILE :	0.460	0.125	0.545	0.070	0.022	0.035	0.438
3RD QUARTILE :	0.550	0.155	0.795	0.085	0.037	0.085	0.652
VOL. WGT. MEAN :	0.363	0.123	0.540	0.062	0.028	0.053	0.443

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
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STATION NAME : SHALLOW LAKE/CUMULATIVE PRECIP. #09

PERIOD OF REPORT : JAN 2,85 TO DEC 31,85

PAGE : 2

	PHOSPHOR	MANGANSE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	11	11	11	10	11	11	11
MAXIMUM :	0.0140	10.00	1.20	6.84	102.70	11.35	0.90
MINIMUM :	0.0015	0.50	0.10	1.15	6.97	2.15	0.20
RANGE :	0.0125	9.50	1.10	5.68	95.72	9.20	0.70
ARITH. MEAN :	0.0061	4.00	0.37	4.53	44.60	5.26	0.29
ARITH. STD. DEV. :	0.0047	3.54	0.42	1.66	34.60	2.60	0.22
GEOM. MEAN :	0.0045	2.48	0.24	4.13	31.91	4.72	0.25
GEOM. STD. DEV. :	2.3489	3.07	2.54	1.67	2.49	1.64	1.66
1ST QUARTILE :	0.0018	0.75	0.10	3.29	13.25	2.90	0.20
2ND QUARTILE :	0.0042	2.50	0.20	4.80	30.21	4.78	0.20
3RD QUARTILE :	0.0080	6.50	0.35	5.31	75.38	6.48	0.20
VOL. WGT. MEAN :	0.0061	3.32	0.44	4.32	38.65	5.43	0.29

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES :	11	11	10
MAXIMUM :	103.20	1.76	0.15
MINIMUM :	12.99	0.14	0.02
RANGE :	90.21	1.62	0.13
ARITH. MEAN :	46.35	0.88	0.07
ARITH. STD. DEV. :	34.21	0.57	0.04
GEOM. MEAN :	36.07	0.66	0.06
GEOM. STD. DEV. :	2.10	2.43	2.03
1ST QUARTILE :	17.40	0.25	0.02
2ND QUARTILE :	27.69	0.70	0.07
3RD QUARTILE :	72.73	1.32	0.09
VOL. WGT. MEAN :	40.62	0.83	0.07

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
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STATION NAME : SMITH'S FALLS/CUMULATIVE PRECIP. #15

PERIOD OF REPORT : JAN 2,85 TO DEC 31,85

PAGE : 1

	PRECIP.	CONDUCT.	PH	FREE H+	TOTAL H+	SULPHATE	NITRATE
	MM	UMHO/CM	LAB	LAB	GRAN	MG/L	AS N
				MG/L	MG/L		MG/L
# OF SAMPLES :	13	13	12	12	13	13	13
MAXIMUM :	110.0	46.4	4.65	0.0933	0.1170	4.80	1.210
MINIMUM :	4.0	14.3	4.03	0.0224	0.0255	0.90	0.240
RANGE :	106.0	32.1	0.62	0.0709	0.0915	3.90	0.970
ARITH. MEAN :	54.2	29.8	4.33	0.0506	0.0760	2.79	0.602
ARITH. STD. DEV :	26.2	9.2	0.19	0.0204	0.0257	1.21	0.249
GEOM. MEAN :	44.6	28.3	4.33	0.0467	0.0709	2.50	0.558
GEOM. STD. DEV. :	2.3	1.4	1.04	1.5414	1.5166	1.68	1.504
1ST QUARTILE :	33.5	24.4	4.22	0.0365	0.0568	1.92	0.440
2ND QUARTILE :	59.5	28.3	4.30	0.0508	0.0769	2.77	0.550
3RD QUARTILE :	64.5	33.6	4.44	0.0604	0.0867	3.35	0.635
VOL. WGT. MEAN :	*****	27.9	*****	0.0458	0.0729	2.69	0.527
	CALCIUM	CHLORIDE	KJELDAHL	MAGNESIM	POTASSIM	SODIUM	AMMONIUM
	MG/L	MG/L	AS N	MG/L	MG/L	MG/L	AS N
			MG/L				MG/L
# OF SAMPLES :	11	13	13	11	12	12	13
MAXIMUM :	0.730	0.450	1.030	0.250	0.175	0.270	0.845
MINIMUM :	0.090	0.020	0.120	0.005	0.000	0.010	0.075
RANGE :	0.640	0.430	0.910	0.245	0.175	0.260	0.770
ARITH. MEAN :	0.354	0.184	0.440	0.077	0.041	0.078	0.327
ARITH. STD. DEV :	0.202	0.124	0.244	0.070	0.048	0.079	0.216
GEOM. MEAN :	0.294	0.139	0.378	0.052	0.033	0.054	0.264
GEOM. STD. DEV. :	1.975	2.429	1.820	2.831	3.593	2.407	2.035
1ST QUARTILE :	0.140	0.110	0.250	0.027	0.005	0.035	0.162
2ND QUARTILE :	0.315	0.165	0.380	0.055	0.027	0.050	0.262
3RD QUARTILE :	0.480	0.205	0.560	0.087	0.055	0.075	0.387
VOL. WGT. MEAN :	0.324	0.159	0.389	0.072	0.033	0.064	0.290

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
-----

STATION NAME : SMITH'S FALLS/CUMULATIVE PRECIP. #15

PERIOD OF REPORT : JAN 2,85 TO DEC 31,85

PAGE : 2

	PHOSPHOR	MANGANSE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	13	13	13	13	13	12	13
MAXIMUM :	0.0160	7.00	1.40	31.77	97.02	11.19	0.80
MINIMUM :	0.0005	0.50	0.10	1.00	6.00	0.67	0.20
RANGE :	0.0155	6.50	1.30	30.76	91.02	10.52	0.60
ARITH. MEAN :	0.0049	3.58	0.45	9.32	42.58	6.04	0.28
ARITH. STD. DEV :	0.0045	2.31	0.37	8.24	25.99	2.76	0.17
GEOM. MEAN :	0.0033	2.75	0.33	6.70	34.19	5.13	0.25
GEOM. STD. DEV. :	2.5987	2.31	2.47	2.43	2.14	2.07	1.55
1ST QUARTILE :	0.0018	1.50	0.10	4.19	22.76	4.32	0.20
2ND QUARTILE :	0.0025	3.00	0.40	7.29	34.33	6.22	0.20
3RD QUARTILE :	0.0065	5.00	0.55	9.79	54.02	7.86	0.20
VOL. WGT. MEAN :	0.0045	3.37	0.46	8.50	40.24	5.29	0.25

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES :	13	13	13
MAXIMUM :	106.90	3.02	0.40
MINIMUM :	14.52	0.05	0.01
RANGE :	92.38	2.97	0.39
ARITH. MEAN :	43.35	1.44	0.13
ARITH. STD. DEV :	26.28	1.02	0.11
GEOM. MEAN :	36.50	0.96	0.08
GEOM. STD. DEV. :	1.87	3.18	2.90
1ST QUARTILE :	19.20	0.51	0.04
2ND QUARTILE :	40.09	0.98	0.07
3RD QUARTILE :	51.45	2.33	0.16
VOL. WGT. MEAN :	41.19	1.28	0.15

1601

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
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STATION NAME : TURKEY LAKE/CUMULATIVE PRECIP. #37

PERIOD OF REPORT : JAN 1,85 TO DEC 31,85

PAGE : 1

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	11	11	11	11	11	11	11
MAXIMUM :	102.4	56.4	4.76	0.0891	0.1380	6.30	0.750
MINIMUM :	15.9	12.2	4.05	0.0174	0.0399	0.80	0.220
RANGE :	86.5	44.2	0.71	0.0717	0.0981	5.50	0.530
ARITH. MEAN :	61.5	24.1	4.48	0.0375	0.0636	2.40	0.441
ARITH. STD. DEV :	33.1	12.5	0.21	0.0208	0.0282	1.53	0.201
GEOM. MEAN :	51.8	21.8	4.47	0.0335	0.0594	2.01	0.403
GEOM. STD. DEV. :	1.9	1.6	1.05	1.6242	1.4435	1.88	1.559
1ST QUARTILE :	26.8	12.6	4.27	0.0209	0.0412	0.90	0.265
2ND QUARTILE :	54.1	21.6	4.47	0.0306	0.0533	2.30	0.345
3RD QUARTILE :	90.7	28.3	4.62	0.0444	0.0705	2.67	0.615
VOL. WGT. MEAN :	*****	25.7	*****	0.0396	0.0662	2.71	0.431

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	11	11	11	11	10	11	11
MAXIMUM :	0.520	0.180	0.870	0.105	0.065	0.100	0.790
MINIMUM :	0.060	0.010	0.090	0.008	0.000	0.002	0.065
RANGE :	0.460	0.170	0.780	0.097	0.065	0.098	0.725
ARITH. MEAN :	0.233	0.082	0.446	0.046	0.034	0.041	0.363
ARITH. STD. DEV :	0.158	0.059	0.275	0.033	0.024	0.033	0.253
GEOM. MEAN :	0.183	0.058	0.353	0.036	0.043	0.028	0.267
GEOM. STD. DEV. :	2.142	2.687	2.188	2.198	2.292	2.974	2.460
1ST QUARTILE :	0.080	0.020	0.155	0.020	0.009	0.016	0.087
2ND QUARTILE :	0.155	0.075	0.445	0.037	0.035	0.025	0.350
3RD QUARTILE :	0.350	0.120	0.590	0.052	0.052	0.057	0.488
VOL. WGT. MEAN :	0.254	0.067	0.487	0.055	0.043	0.041	0.385

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
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STATION NAME : TURKEY LAKE/CUMULATIVE PRECIP. #37

PERIOD OF REPORT : JAN 1,85 TO DEC 31,85

PAGE : 2

	PHOSPHOR	MANGANSE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	11	11	10	10	10	11	10
MAXIMUM :	0.0140	12.00	1.00	17.85	292.10	20.29	0.60
MINIMUM :	0.0015	1.00	0.10	1.55	8.43	1.28	0.20
RANGE :	0.0125	11.00	0.90	16.30	283.67	19.01	0.40
ARITH. MEAN :	0.0060	5.45	0.37	6.47	64.23	6.81	0.28
ARITH. STD. DEV :	0.0041	3.45	0.28	4.81	83.55	5.42	0.14
GEOM. MEAN :	0.0047	4.44	0.29	5.09	38.41	5.11	0.26
GEOM. STD. DEV. :	2.1972	2.05	2.12	2.12	2.79	2.30	1.51
1ST QUARTILE :	0.0020	2.50	0.15	2.53	15.59	2.37	0.20
2ND QUARTILE :	0.0055	4.50	0.30	5.27	46.31	4.76	0.20
3RD QUARTILE :	0.0080	6.50	0.40	7.90	57.29	8.36	0.30
VOL. WGT. MEAN :	0.0069	6.20	0.35	6.32	76.26	6.68	0.31

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES :	10	11	11
MAXIMUM :	218.90	2.76	0.14
MINIMUM :	9.38	0.16	0.04
RANGE :	209.52	2.60	0.10
ARITH. MEAN :	58.49	1.01	0.08
ARITH. STD. DEV :	61.90	0.71	0.03
GEOM. MEAN :	39.58	0.79	0.07
GEOM. STD. DEV. :	2.49	2.19	1.46
1ST QUARTILE :	18.29	0.42	0.05
2ND QUARTILE :	37.43	0.90	0.06
3RD QUARTILE :	62.17	1.28	0.10
VOL. WGT. MEAN :	67.72	1.07	0.08

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : UXBRIDGE/CUMULATIVE PRECIP.

#11

PERIOD OF REPORT : JAN 2,85 TO JAN 7,86

PAGE : 1

	PRECIP.	CONDUCT.	PH	FREE H+	TOTAL H+	SULPHATE	NITRATE
	MM	UMHO/CM	LAB	LAB	GRAN	MG/L	AS N
				MG/L	MG/L		MG/L
# OF SAMPLES :	9	8	8	8	9	8	8
MAXIMUM :	170.0	41.8	4.92	0.0759	0.0990	4.95	0.920
MINIMUM :	1.5	9.2	4.12	0.0120	0.0155	0.55	0.160
RANGE :	168.5	32.6	0.80	0.0638	0.0835	4.40	0.760
ARITH. MEAN :	75.1	27.9	4.38	0.0485	0.0676	3.09	0.539
ARITH. STD. DEV :	55.7	10.7	0.29	0.0244	0.0311	1.33	0.223
GEOM. MEAN :	44.6	25.6	4.38	0.0412	0.0586	2.67	0.487
GEOM. STD. DEV. :	4.3	1.6	1.07	1.9669	1.8852	1.98	1.693
1ST QUARTILE :	24.5	21.6	4.16	0.0267	0.0376	2.43	0.410
2ND QUARTILE :	57.5	27.3	4.27	0.0542	0.0703	3.32	0.580
3RD QUARTILE :	109.5	37.3	4.59	0.0692	0.0911	3.85	0.625
VOL. WGT. MEAN :	*****	27.1	*****	0.0489	0.0684	2.61	0.509
	CALCIUM	CHLORIDE	KJELDAHL	MAGNESIM	POTASSIM	SODIUM	AMMONIUM
	MG/L	MG/L	AS N	MG/L	MG/L	MG/L	AS N
			MG/L				MG/L
# OF SAMPLES :	6	8	8	7	8	8	9
MAXIMUM :	0.860	0.590	0.880	0.140	0.080	0.245	0.715
MINIMUM :	0.000	0.090	0.080	0.000	0.030	0.025	0.000
RANGE :	0.860	0.500	0.800	0.140	0.050	0.220	0.715
ARITH. MEAN :	0.385	0.182	0.480	0.066	0.042	0.072	0.337
ARITH. STD. DEV :	0.323	0.168	0.277	0.052	0.017	0.072	0.231
GEOM. MEAN :	0.438	0.146	0.389	0.097	0.040	0.055	0.350
GEOM. STD. DEV. :	2.100	1.869	2.194	2.020	1.405	2.062	2.187
1ST QUARTILE :	0.055	0.090	0.310	0.015	0.030	0.035	0.130
2ND QUARTILE :	0.365	0.135	0.410	0.042	0.037	0.052	0.325
3RD QUARTILE :	0.540	0.165	0.720	0.105	0.047	0.067	0.435
VOL. WGT. MEAN :	0.238	0.199	0.386	0.043	0.042	0.085	0.290

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

1631



ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
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STATION NAME : UXBRIDGE/CUMULATIVE PRECIP.

#11

PERIOD OF REPORT : JAN 2,85 TO JAN 7,86

PAGE : 2

	PHOSPHOR	MANGANESE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	8	8	8	8	8	8	8
MAXIMUM :	0.0140	11.00	1.20	13.94	139.20	16.68	0.50
MINIMUM :	0.0000	0.50	0.10	3.12	12.58	2.71	0.20
RANGE :	0.0140	10.50	1.10	10.82	126.62	13.97	0.30
ARITH. MEAN :	0.0060	4.56	0.47	7.14	55.13	7.70	0.24
ARITH. STD. DEV :	0.0056	3.81	0.46	3.73	44.00	4.29	0.11
GEOM. MEAN :	0.0090	3.23	0.28	6.36	40.13	6.75	0.22
GEOM. STD. DEV. :	3.3184	2.63	3.14	1.67	2.45	1.74	1.38
1ST QUARTILE :	0.0012	2.50	0.10	4.27	18.41	4.77	0.20
2ND QUARTILE :	0.0047	3.00	0.30	6.46	44.54	7.42	0.20
3RD QUARTILE :	0.0110	7.00	0.85	9.29	81.67	8.90	0.20
VOL. WGT. MEAN :	0.0037	3.42	0.40	6.41	34.99	6.43	0.23

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES :	8	8	8
MAXIMUM :	121.00	2.40	0.26
MINIMUM :	2.89	0.36	0.03
RANGE :	118.11	2.04	0.23
ARITH. MEAN :	49.17	1.09	0.11
ARITH. STD. DEV :	39.31	0.64	0.08
GEOM. MEAN :	32.62	0.93	0.09
GEOM. STD. DEV. :	3.19	1.90	1.98
1ST QUARTILE :	22.07	0.61	0.06
2ND QUARTILE :	41.00	1.11	0.08
3RD QUARTILE :	71.65	1.26	0.16
VOL. WGT. MEAN :	31.65	0.83	0.10

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
-----

STATION NAME : WATERLOO/CUMULATIVE PRECIP.

#07

PERIOD OF REPORT : JAN 1,85 TO DEC 31,85

PAGE : 1

	PRECIP.	CONDUCT.	PH	FREE H+	TOTAL H+	SULPHATE	NITRATE
	MM	UMHO/CM	LAB	LAB	GRAN	MG/L	AS N
				MG/L	MG/L		MG/L
# OF SAMPLES :	13	13	13	13	13	13	13
MAXIMUM :	189.0	48.9	6.90	0.0851	0.1220	10.40	1.280
MINIMUM :	26.0	5.2	4.07	0.0001	0.0255	0.35	0.025
RANGE :	163.0	43.7	2.83	0.0850	0.0965	10.05	1.255
ARITH. MEAN :	86.5	31.4	4.64	0.0408	0.0690	3.82	0.570
ARITH. STD. DEV :	47.7	13.0	0.76	0.0268	0.0306	2.84	0.367
GEOM. MEAN :	74.3	27.6	4.60	0.0227	0.0621	2.92	0.427
GEOM. STD. DEV. :	1.8	1.8	1.15	5.7702	1.6495	2.31	2.700
1ST QUARTILE :	47.5	21.9	4.22	0.0150	0.0400	2.05	0.325
2ND QUARTILE :	73.0	30.6	4.35	0.0398	0.0656	3.07	0.495
3RD QUARTILE :	108.0	41.9	4.63	0.0544	0.0821	3.90	0.620
VOL. WGT. MEAN :	*****	30.6	*****	0.0468	0.0736	3.23	0.523
	CALCIUM	CHLORIDE	KJELDAHL	MAGNESIM	POTASSIM	SODIUM	AMMONIUM
	MG/L	MG/L	AS N	MG/L	MG/L	MG/L	AS N
			MG/L				MG/L
# OF SAMPLES :	12	13	13	13	12	13	13
MAXIMUM :	2.520	0.540	3.270	0.605	0.110	0.200	1.450
MINIMUM :	0.020	0.015	0.080	0.005	0.002	0.008	0.030
RANGE :	2.500	0.525	3.190	0.600	0.108	0.192	1.420
ARITH. MEAN :	0.497	0.232	0.767	0.134	0.035	0.089	0.498
ARITH. STD. DEV :	0.660	0.157	0.867	0.187	0.031	0.064	0.397
GEOM. MEAN :	0.273	0.162	0.503	0.069	0.022	0.062	0.357
GEOM. STD. DEV. :	3.509	2.875	2.548	3.334	3.125	2.748	2.632
1ST QUARTILE :	0.190	0.100	0.260	0.035	0.009	0.025	0.223
2ND QUARTILE :	0.370	0.220	0.410	0.072	0.030	0.072	0.350
3RD QUARTILE :	0.490	0.325	0.690	0.082	0.050	0.123	0.605
VOL. WGT. MEAN :	0.382	0.191	0.530	0.088	0.026	0.078	0.394

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

- 65 -

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
-----

STATION NAME : WATERLOO/CUMULATIVE PRECIP.

#07

PERIOD OF REPORT : JAN 1,85 TO DEC 31,85

PAGE : 2

	PHOSPHOR	MANGANSE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	12	13	13	13	13	13	13
MAXIMUM :	0.0370	21.00	3.00	32.62	390.00	20.86	1.30
MINIMUM :	0.0010	0.50	0.10	2.55	13.87	1.70	0.20
RANGE :	0.0360	20.50	2.90	30.07	376.13	19.16	1.10
ARITH. MEAN :	0.0095	6.65	0.82	11.45	123.48	8.99	0.42
ARITH. STD. DEV. :	0.0107	6.72	0.89	9.08	123.48	5.12	0.36
GEOM. MEAN :	0.0051	3.98	0.47	8.76	76.86	7.65	0.31
GEOM. STD. DEV. :	3.4870	3.13	3.04	2.15	2.84	1.88	2.06
1ST QUARTILE :	0.0017	1.50	0.20	5.20	32.02	5.94	0.20
2ND QUARTILE :	0.0060	4.50	0.45	7.51	71.39	8.16	0.20
3RD QUARTILE :	0.0125	6.50	0.80	12.64	122.10	9.35	0.45
VOL. WGT. MEAN :	0.0071	4.60	0.89	9.63	114.72	9.02	0.35

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES :	13	13	12
MAXIMUM :	318.70	5.93	2.27
MINIMUM :	15.82	0.14	0.09
RANGE :	302.88	5.79	2.18
ARITH. MEAN :	77.82	2.13	1.00
ARITH. STD. DEV. :	89.18	1.79	0.65
GEOM. MEAN :	49.67	1.35	0.72
GEOM. STD. DEV. :	2.55	3.12	2.70
1ST QUARTILE :	20.33	0.65	0.50
2ND QUARTILE :	50.69	1.60	1.00
3RD QUARTILE :	62.34	2.90	1.40
VOL. WGT. MEAN :	62.48	2.28	0.93

166

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
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STATION NAME : WHITNEY/CUMULATIVE PRECIP.

#19

PERIOD OF REPORT : JAN 2,85 TO JAN 2,86

PAGE : 1

	PRECIP.	CONDUCT.	PH	FREE H+	TOTAL H+	SULPHATE	NITRATE
	MM	UMHO/CM	LAB	LAB	GRAN	MG/L	AS N
				MG/L	MG/L		MG/L
# OF SAMPLES :	13	12	12	12	12	12	12
MAXIMUM :	102.0	47.4	4.59	0.0832	0.1200	5.15	0.810
MINIMUM :	33.0	18.6	4.08	0.0257	0.0584	0.75	0.250
RANGE :	69.0	28.8	0.51	0.0575	0.0616	4.40	0.560
ARITH. MEAN :	62.2	29.9	4.31	0.0521	0.0809	2.66	0.530
ARITH. STD. DEV :	20.3	7.2	0.16	0.0178	0.0171	1.31	0.168
GEOM. MEAN :	59.3	29.2	4.30	0.0493	0.0793	2.31	0.504
GEOM. STD. DEV. :	1.4	1.3	1.04	1.4296	1.2291	1.81	1.413
1ST QUARTILE :	51.0	25.6	4.18	0.0363	0.0680	1.70	0.420
2ND QUARTILE :	54.5	29.6	4.28	0.0519	0.0807	2.93	0.515
3RD QUARTILE :	70.0	33.6	4.44	0.0655	0.0910	3.43	0.635
VOL. WGT. MEAN :	*****	29.6	*****	0.0515	0.0807	2.67	0.511
	CALCIUM	CHLORIDE	KJELDAHL	MAGNESIM	POTASSIM	SODIUM	AMMONIUM
	MG/L	MG/L	AS N	MG/L	MG/L	MG/L	AS N
			MG/L				MG/L
# OF SAMPLES :	13	12	12	13	12	12	12
MAXIMUM :	0.520	0.260	1.240	0.065	0.080	0.145	0.980
MINIMUM :	0.060	0.030	0.120	0.002	0.002	0.005	0.025
RANGE :	0.460	0.230	1.120	0.063	0.077	0.140	0.955
ARITH. MEAN :	0.242	0.142	0.373	0.030	0.023	0.054	0.298
ARITH. STD. DEV :	0.146	0.069	0.309	0.020	0.026	0.038	0.260
GEOM. MEAN :	0.199	0.124	0.294	0.022	0.010	0.041	0.207
GEOM. STD. DEV. :	1.987	1.798	2.002	2.567	4.086	2.377	2.663
1ST QUARTILE :	0.105	0.105	0.175	0.017	0.002	0.030	0.142
2ND QUARTILE :	0.190	0.130	0.290	0.025	0.005	0.045	0.227
3RD QUARTILE :	0.345	0.180	0.430	0.035	0.042	0.075	0.392
VOL. WGT. MEAN :	0.235	0.141	0.356	0.029	0.021	0.058	0.283

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
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STATION NAME : WHITNEY/CUMULATIVE PRECIP.

#19

PERIOD OF REPORT : JAN 2,85 TO JAN 2,86

PAGE : 2

	PHOSPHOR	MANGANESE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	12	11	12	12	11	12	12
MAXIMUM :	0.0480	5.00	1.00	9.68	76.37	11.31	0.40
MINIMUM :	0.0005	0.50	0.10	2.28	11.56	0.81	0.20
RANGE :	0.0475	4.50	0.90	7.40	64.81	10.50	0.20
ARITH. MEAN :	0.0105	2.09	0.29	4.69	35.20	6.65	0.23
ARITH. STD. DEV :	0.0129	1.63	0.25	1.95	20.12	3.09	0.08
GEOM. MEAN :	0.0055	1.55	0.22	4.37	30.25	5.60	0.22
GEOM. STD. DEV. :	3.7107	2.31	2.07	1.47	1.80	2.07	1.31
1ST QUARTILE :	0.0020	0.75	0.10	3.45	16.91	3.95	0.20
2ND QUARTILE :	0.0070	1.00	0.25	4.53	31.17	7.53	0.20
3RD QUARTILE :	0.0125	3.50	0.30	5.16	40.85	9.02	0.20
VOL. WGT. MEAN :	0.0100	2.03	0.32	4.75	34.32	7.11	0.24

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES :	11	12	12
MAXIMUM :	81.62	1.92	0.37
MINIMUM :	19.41	0.17	0.03
RANGE :	62.21	1.75	0.34
ARITH. MEAN :	38.56	0.96	0.11
ARITH. STD. DEV :	18.12	0.54	0.11
GEOM. MEAN :	35.14	0.79	0.08
GEOM. STD. DEV. :	1.57	2.06	2.20
1ST QUARTILE :	20.99	0.48	0.04
2ND QUARTILE :	36.84	1.06	0.06
3RD QUARTILE :	43.98	1.30	0.10
VOL. WGT. MEAN :	37.60	1.05	0.12

1  
6  
1

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
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STATION NAME : WILBERFORCE/CUMULATIVE PRECIP. #18

PERIOD OF REPORT : JAN 2,85 TO JAN 3,86

PAGE : 1

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	13	13	13	13	13	13	13
MAXIMUM :	160.0	37.9	4.48	0.0646	0.0978	4.20	0.860
MINIMUM :	36.0	21.3	4.19	0.0331	0.0644	1.00	0.320
RANGE :	124.0	16.6	0.29	0.0315	0.0334	3.20	0.540
ARITH. MEAN :	83.5	29.3	4.31	0.0499	0.0817	2.66	0.536
ARITH. STD. DEV :	35.3	5.6	0.11	0.0115	0.0116	1.14	0.156
GEOM. MEAN :	76.5	28.8	4.31	0.0485	0.0809	2.42	0.516
GEOM. STD. DEV. :	1.6	1.2	1.02	1.2770	1.1560	1.60	1.338
1ST QUARTILE :	55.5	23.6	4.22	0.0376	0.0686	1.65	0.390
2ND QUARTILE :	77.5	28.6	4.27	0.0496	0.0828	2.13	0.525
3RD QUARTILE :	106.0	32.4	4.37	0.0589	0.0890	3.65	0.610
VOL. WGT. MEAN :	*****	28.9	*****	0.0490	0.0816	2.72	0.499

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	12	13	13	12	13	13	13
MAXIMUM :	0.420	0.300	0.940	0.070	0.060	0.145	0.740
MINIMUM :	0.015	0.030	0.170	0.002	0.000	0.008	0.100
RANGE :	0.405	0.270	0.770	0.067	0.060	0.137	0.640
ARITH. MEAN :	0.220	0.152	0.372	0.031	0.022	0.059	0.304
ARITH. STD. DEV :	0.136	0.084	0.240	0.024	0.023	0.048	0.186
GEOM. MEAN :	0.167	0.131	0.317	0.020	0.048	0.042	0.259
GEOM. STD. DEV. :	2.548	1.840	1.761	3.202	3.564	2.590	1.793
1ST QUARTILE :	0.120	0.100	0.185	0.011	0.001	0.020	0.175
2ND QUARTILE :	0.200	0.115	0.275	0.027	0.010	0.042	0.233
3RD QUARTILE :	0.340	0.160	0.375	0.055	0.040	0.070	0.365
VOL. WGT. MEAN :	0.204	0.143	0.376	0.027	0.021	0.055	0.294

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
-----

STATION NAME : WILBERFORCE/CUMULATIVE PRECIP. #18

PERIOD OF REPORT : JAN 2,85 TO JAN 3,86

PAGE : 2

	PHOSPHOR	MANGANSE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	13	13	13	13	12	13	12
MAXIMUM :	0.0330	21.00	0.70	8.27	78.67	12.13	0.50
MINIMUM :	0.0000	0.50	0.10	2.13	9.43	1.11	0.20
RANGE :	0.0330	20.50	0.60	6.14	69.24	11.02	0.30
ARITH. MEAN :	0.0098	3.77	0.37	4.30	31.76	6.60	0.24
ARITH. STD. DEV :	0.0100	5.48	0.24	2.30	21.52	3.75	0.10
GEOM. MEAN :	0.0091	2.05	0.29	3.79	25.44	5.24	0.23
GEOM. STD. DEV. :	3.6439	2.96	2.24	1.67	2.04	2.24	1.37
1ST QUARTILE :	0.0012	1.00	0.10	2.31	14.04	3.45	0.20
2ND QUARTILE :	0.0075	1.50	0.35	3.26	26.95	6.05	0.20
3RD QUARTILE :	0.0115	3.50	0.55	5.50	45.75	9.38	0.20
VOL. WGT. MEAN :	0.0087	3.49	0.36	3.88	30.48	5.76	0.25

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES :	12	13	13
MAXIMUM :	115.20	3.68	0.13
MINIMUM :	11.89	0.21	0.01
RANGE :	103.31	3.46	0.12
ARITH. MEAN :	53.89	1.52	0.07
ARITH. STD. DEV :	36.21	1.03	0.04
GEOM. MEAN :	42.62	1.20	0.05
GEOM. STD. DEV. :	2.10	2.15	2.65
1ST QUARTILE :	25.32	0.71	0.02
2ND QUARTILE :	44.88	1.17	0.06
3RD QUARTILE :	83.35	1.78	0.09
VOL. WGT. MEAN :	52.27	1.41	0.06

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
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STATION NAME : WILKESPORT/CUMULATIVE PRECIP. #04

PERIOD OF REPORT : JAN 2,85 TO DEC 31,85

PAGE : 1

	PRECIP.	CONDUCT.	PH	FREE H+	TOTAL H+	SULPHATE	NITRATE
	MM	UMHO/CM	LAB	LAB	GRAN	MG/L	AS N
				MG/L	MG/L		MG/L
# OF SAMPLES :	13	12	12	12	12	12	12
MAXIMUM :	194.0	75.3	4.74	0.1318	0.1750	7.30	2.020
MINIMUM :	9.4	22.9	3.88	0.0182	0.0568	2.30	0.370
RANGE :	184.6	52.4	0.86	0.1136	0.1182	5.00	1.650
ARITH. MEAN :	76.5	40.1	4.28	0.0591	0.0926	4.39	0.762
ARITH. STD. DEV :	48.0	14.5	0.22	0.0293	0.0333	1.72	0.457
GEOM. MEAN :	60.9	38.1	4.27	0.0529	0.0880	4.10	0.678
GEOM. STD. DEV. :	2.2	1.4	1.05	1.6639	1.3834	1.46	1.592
1ST QUARTILE :	34.5	32.0	4.16	0.0405	0.0724	3.05	0.510
2ND QUARTILE :	73.7	35.8	4.24	0.0569	0.0860	3.90	0.595
3RD QUARTILE :	98.0	46.3	4.40	0.0696	0.1002	5.77	0.850
VOL. WGT. MEAN :	*****	39.2	*****	0.0645	0.0953	4.04	0.620
	CALCIUM	CHLORIDE	KJELDAHL	MAGNESIM	POTASSIM	SODIUM	AMMONIUM
	MG/L	MG/L	AS N	MG/L	MG/L	MG/L	AS N
			MG/L				MG/L
# OF SAMPLES :	10	12	11	10	9	10	12
MAXIMUM :	1.410	2.900	1.050	0.250	0.145	0.205	1.100
MINIMUM :	0.170	0.130	0.290	0.025	0.002	0.035	0.270
RANGE :	1.240	2.770	0.760	0.225	0.142	0.170	0.830
ARITH. MEAN :	0.524	0.465	0.585	0.090	0.055	0.086	0.534
ARITH. STD. DEV :	0.371	0.775	0.208	0.069	0.043	0.063	0.252
GEOM. MEAN :	0.436	0.275	0.553	0.073	0.037	0.070	0.488
GEOM. STD. DEV. :	1.856	2.339	1.430	1.940	3.214	1.971	1.548
1ST QUARTILE :	0.270	0.160	0.400	0.050	0.025	0.035	0.370
2ND QUARTILE :	0.395	0.215	0.580	0.062	0.042	0.067	0.450
3RD QUARTILE :	0.565	0.350	0.675	0.085	0.060	0.097	0.670
VOL. WGT. MEAN :	0.412	0.236	0.572	0.068	0.051	0.064	0.478

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH



ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
-----

STATION NAME : WILKESPORT/CUMULATIVE PRECIP. #04

PERIOD OF REPORT : JAN 2,85 TO DEC 31,85

PAGE : 2

	PHOSPHOR	MANGANESE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	11	11	12	12	12	12	12
MAXIMUM :	0.0680	27.00	1.30	23.14	216.80	14.45	1.00
MINIMUM :	0.0010	1.00	0.10	4.26	18.83	1.22	0.20
RANGE :	0.0670	26.00	1.20	18.88	197.97	13.23	0.80
ARITH. MEAN :	0.0132	5.91	0.67	10.21	66.61	6.52	0.45
ARITH. STD. DEV :	0.0188	7.34	0.43	6.71	57.84	3.84	0.29
GEOM. MEAN :	0.0071	3.87	0.50	8.55	50.01	5.28	0.38
GEOM. STD. DEV. :	3.2983	2.43	2.45	1.83	2.16	2.13	1.87
1ST QUARTILE :	0.0018	2.00	0.35	5.31	23.13	3.97	0.20
2ND QUARTILE :	0.0090	3.50	0.60	7.21	51.36	6.09	0.40
3RD QUARTILE :	0.0110	5.00	1.10	15.45	76.64	9.15	0.65
VOL. WGT. MEAN :	0.0143	6.11	0.59	8.46	54.71	6.53	0.43

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES :	12	12	12
MAXIMUM :	171.00	4.79	0.40
MINIMUM :	22.17	0.18	0.03
RANGE :	148.83	4.60	0.37
ARITH. MEAN :	65.09	1.41	0.14
ARITH. STD. DEV :	44.73	1.24	0.10
GEOM. MEAN :	53.47	1.04	0.11
GEOM. STD. DEV. :	1.91	2.31	1.93
1ST QUARTILE :	33.15	0.69	0.08
2ND QUARTILE :	49.53	0.96	0.11
3RD QUARTILE :	85.93	1.74	0.14
VOL. WGT. MEAN :	54.69	1.12	0.12

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
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STATION NAME : WINISK/CUMULATIVE PRECIP.

#29

PERIOD OF REPORT : JAN 28,85 TO JAN 3,86

PAGE : 1

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	6	5	5	5	5	5	5
MAXIMUM :	396.3	21.8	6.90	0.0022	0.0232	1.40	0.130
MINIMUM :	13.8	11.5	5.65	0.0001	0.0165	0.80	0.000
RANGE :	382.5	10.3	1.25	0.0021	0.0067	0.60	0.130
ARITH. MEAN :	89.3	15.9	6.31	0.0009	0.0192	1.04	0.063
ARITH. STD. DEV. :	150.9	4.1	0.56	0.0009	0.0025	0.22	0.054
GEOM. MEAN :	40.2	15.5	6.29	0.0005	0.0190	1.02	0.107
GEOM. STD. DEV. :	3.3	1.3	1.09	3.6110	1.1333	1.23	2.723
1ST QUARTILE :	16.0	12.4	5.80	0.0001	0.0174	0.88	0.008
2ND QUARTILE :	29.9	14.2	6.06	0.0004	0.0183	0.97	0.047
3RD QUARTILE :	39.8	16.5	6.52	0.0009	0.0189	1.02	0.085
VOL. WGT. MEAN :	*****	15.3	*****	0.0012	0.0197	1.01	0.077
	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	5	5	5	5	5	5	5
MAXIMUM :	1.410	3.840	0.450	0.555	0.155	2.200	0.005
MINIMUM :	0.350	1.520	0.060	0.155	0.000	0.900	0.000
RANGE :	1.060	2.320	0.390	0.400	0.155	1.300	0.005
ARITH. MEAN :	0.604	2.534	0.188	0.254	0.073	1.540	0.001
ARITH. STD. DEV. :	0.454	0.923	0.158	0.170	0.055	0.478	0.002
GEOM. MEAN :	0.514	2.404	0.146	0.223	0.140	1.477	0.105
GEOM. STD. DEV. :	1.783	1.439	2.187	1.694	1.828	1.393	11.105
1ST QUARTILE :	0.355	1.765	0.080	0.157	0.032	1.110	0.000
2ND QUARTILE :	0.390	2.115	0.105	0.173	0.067	1.475	0.000
3RD QUARTILE :	0.450	2.650	0.165	0.200	0.072	1.640	0.001
VOL. WGT. MEAN :	0.496	2.320	0.181	0.215	0.061	1.416	0.001

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
-----

STATION NAME : WINISK/CUMULATIVE PRECIP.

#29

PERIOD OF REPORT : JAN 28,85 TO JAN 3,86

PAGE : 2

	PHOSPHOR	MANGANESE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	5	4	4	4	4	4	4
MAXIMUM :	0.0320	8.00	0.50	110.30	543.00	10.29	0.60
MINIMUM :	0.0090	1.00	0.20	1.92	27.98	4.05	0.20
RANGE :	0.0230	7.00	0.30	108.38	515.02	6.24	0.40
ARITH. MEAN :	0.0232	3.00	0.30	31.51	160.92	7.35	0.30
ARITH. STD. DEV :	0.0087	3.37	0.14	52.59	254.76	3.11	0.20
GEOM. MEAN :	0.0214	2.00	0.28	9.95	66.81	6.82	0.26
GEOM. STD. DEV. :	1.6498	2.67	1.54	5.56	4.07	1.58	1.73
1ST QUARTILE :	0.0160	1.00	0.20	3.82	30.56	4.70	0.20
2ND QUARTILE :	0.0235	1.50	0.25	6.91	36.36	7.53	0.20
3RD QUARTILE :	0.0260	5.00	0.40	59.20	291.28	9.99	0.40
VOL. WGT. MEAN :	0.0210	3.16	0.29	31.25	161.92	8.07	0.30

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES :	4	4	4
MAXIMUM :	98.50	9.29	0.19
MINIMUM :	24.06	0.91	0.02
RANGE :	74.44	8.38	0.17
ARITH. MEAN :	52.78	3.11	0.08
ARITH. STD. DEV :	32.15	4.12	0.08
GEOM. MEAN :	46.31	1.80	0.06
GEOM. STD. DEV. :	1.79	3.00	2.52
1ST QUARTILE :	31.92	0.99	0.03
2ND QUARTILE :	44.27	1.12	0.05
3RD QUARTILE :	73.63	5.23	0.13
VOL. WGT. MEAN :	50.08	3.18	0.08

PART IV

SUMMARY STATISTICS OF PRECIPITATION CONCENTRATION BY REGION

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
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STATION NAME : CENTRAL REGION/CUMULATIVE PRECIP.

PERIOD OF REPORT : DEC 31,84 TO JAN 7,86

PAGE : 1

	PRECIP.	CONDUCT.	PH	FREE H+	TOTAL H+	SULPHATE	NITRATE
	MM	UMHO/CM	LAB	LAB	GRAN	MG/L	AS N
				MG/L	MG/L		MG/L
# OF SAMPLES :	59	56	55	55	57	56	56
MAXIMUM :	243.0	64.7	5.10	0.1122	0.1470	9.00	1.190
MINIMUM :	1.5	6.1	3.95	0.0079	0.0155	0.35	0.090
RANGE :	241.5	58.6	1.15	0.1043	0.1315	8.65	1.100
ARITH. MEAN :	79.4	29.0	4.38	0.0464	0.0752	2.97	0.563
ARITH. STD. DEV :	43.5	10.1	0.22	0.0196	0.0228	1.57	0.224
GEOM. MEAN :	65.8	27.2	4.37	0.0418	0.0712	2.54	0.516
GEOM. STD. DEV. :	2.1	1.5	1.05	1.6562	1.4363	1.84	1.570
1ST QUARTILE :	46.5	23.5	4.22	0.0339	0.0646	1.82	0.395
2ND QUARTILE :	73.6	27.9	4.34	0.0457	0.0741	3.05	0.530
3RD QUARTILE :	108.0	33.1	4.47	0.0582	0.0890	3.90	0.675
VOL. WGT. MEAN :	*****	27.2	*****	0.0432	0.0724	2.76	0.502
	CALCIUM	CHLORIDE	KJELDAHL	MAGNESIM	POTASSIM	SODIUM	AMMONIUM
	MG/L	MG/L	AS N	MG/L	MG/L	MG/L	AS N
			MG/L				MG/L
# OF SAMPLES :	51	56	55	53	56	56	57
MAXIMUM :	1.160	0.600	1.350	0.185	0.235	0.310	0.905
MINIMUM :	0.000	0.020	0.080	0.000	0.000	0.002	0.000
RANGE :	1.160	0.580	1.270	0.185	0.235	0.308	0.905
ARITH. MEAN :	0.367	0.174	0.491	0.052	0.038	0.065	0.373
ARITH. STD. DEV :	0.293	0.116	0.329	0.046	0.041	0.060	0.244
GEOM. MEAN :	0.263	0.144	0.391	0.043	0.039	0.045	0.305
GEOM. STD. DEV. :	2.719	1.887	2.005	2.994	3.457	2.482	2.103
1ST QUARTILE :	0.120	0.110	0.220	0.017	0.005	0.030	0.175
2ND QUARTILE :	0.285	0.140	0.375	0.040	0.030	0.047	0.322
3RD QUARTILE :	0.530	0.205	0.710	0.072	0.050	0.075	0.502
VOL. WGT. MEAN :	0.310	0.160	0.469	0.040	0.040	0.060	0.357

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
-----

STATION NAME : CENTRAL REGION/CUMULATIVE PRECIP.

PERIOD OF REPORT : DEC 31,84 TO JAN 7,86

PAGE : 2

	PHOSPHOR	MANGANESE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	55	53	53	52	52	53	52
MAXIMUM :	0.1170	22.00	1.20	13.94	364.50	28.42	0.60
MINIMUM :	0.0000	0.50	0.10	1.18	9.09	1.11	0.20
RANGE :	0.1170	21.50	1.10	12.75	355.41	27.31	0.40
ARITH. MEAN :	0.0128	4.75	0.39	5.67	60.45	7.04	0.26
ARITH. STD. DEV. :	0.0202	5.23	0.29	3.45	69.70	4.65	0.11
GEOM. MEAN :	0.0088	2.76	0.29	4.69	37.63	5.69	0.24
GEOM. STD. DEV. :	3.4089	2.97	2.29	1.89	2.61	2.02	1.42
1ST QUARTILE :	0.0015	1.00	0.10	2.56	16.23	3.48	0.20
2ND QUARTILE :	0.0075	3.00	0.30	4.39	36.66	6.44	0.20
3RD QUARTILE :	0.0130	6.00	0.60	7.70	79.54	9.33	0.20
VOL. WGT. MEAN :	0.0172	4.11	0.36	5.11	47.21	5.85	0.25

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES :	52	54	52
MAXIMUM :	558.90	4.29	0.41
MINIMUM :	2.89	0.12	0.01
RANGE :	556.01	4.17	0.40
ARITH. MEAN :	70.08	1.23	0.10
ARITH. STD. DEV. :	90.58	0.95	0.09
GEOM. MEAN :	43.30	0.91	0.07
GEOM. STD. DEV. :	2.61	2.31	2.57
1ST QUARTILE :	21.31	0.55	0.04
2ND QUARTILE :	38.55	1.03	0.08
3RD QUARTILE :	93.90	1.59	0.12
VOL. WGT. MEAN :	54.76	1.14	0.09

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
-----

STATION NAME : NORTHEASTERN REGION/CUMULATIVE PRECIP.

PERIOD OF REPORT : JAN 1,85 TO JAN 2,86

PAGE : 1

	PRECIP.	CONDUCT.	PH	FREE H+	TOTAL H+	SULPHATE	NITRATE
	MM	UMHO/CM	LAB	LAB	GRAN	MG/L	AS N
				MG/L	MG/L		MG/L
# OF SAMPLES :	97	94	93	93	93	95	95
MAXIMUM :	126.9	59.1	5.26	0.1023	0.1430	6.30	1.230
MINIMUM :	12.0	6.6	3.99	0.0055	0.0255	0.60	0.020
RANGE :	114.9	52.5	1.27	0.0968	0.1175	5.70	1.210
ARITH. MEAN :	60.6	26.0	4.41	0.0441	0.0693	2.40	0.435
ARITH. STD. DEV :	27.0	11.2	0.25	0.0207	0.0238	1.29	0.208
GEOM. MEAN :	53.8	23.7	4.41	0.0386	0.0653	2.05	0.376
GEOM. STD. DEV. :	1.7	1.6	1.06	1.7709	1.4298	1.79	1.853
1ST QUARTILE :	40.0	18.6	4.25	0.0309	0.0537	1.32	0.260
2ND QUARTILE :	58.0	23.9	4.38	0.0417	0.0678	2.17	0.420
3RD QUARTILE :	76.5	32.2	4.51	0.0556	0.0807	3.35	0.565
VOL. WGT. MEAN :	*****	25.8	*****	0.0443	0.0701	2.44	0.431
	CALCIUM	CHLORIDE	KJELDAHL	MAGNESIM	POTASSIM	SODIUM	AMMONIUM
	MG/L	MG/L	AS N	MG/L	MG/L	MG/L	AS N
			MG/L				MG/L
# OF SAMPLES :	93	95	94	95	92	94	96
MAXIMUM :	0.700	0.900	1.260	0.245	0.185	0.725	2.800
MINIMUM :	0.000	0.000	0.030	0.000	0.000	0.002	0.000
RANGE :	0.700	0.900	1.230	0.245	0.185	0.723	2.800
ARITH. MEAN :	0.213	0.143	0.386	0.040	0.038	0.069	0.294
ARITH. STD. DEV :	0.164	0.142	0.262	0.040	0.040	0.104	0.334
GEOM. MEAN :	0.162	0.102	0.304	0.026	0.027	0.036	0.201
GEOM. STD. DEV. :	2.495	2.514	2.069	2.949	3.184	3.268	3.055
1ST QUARTILE :	0.090	0.070	0.165	0.015	0.008	0.020	0.103
2ND QUARTILE :	0.155	0.110	0.320	0.030	0.027	0.040	0.207
3RD QUARTILE :	0.325	0.185	0.575	0.052	0.050	0.080	0.407
VOL. WGT. MEAN :	0.205	0.135	0.392	0.038	0.037	0.069	0.321

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
-----

STATION NAME : NORTHEASTERN REGION/CUMULATIVE PRECIP.

PERIOD OF REPORT : JAN 1,85 TO JAN 2,86

PAGE : 2

	PHOSPHOR	MANGANSE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	94	91	92	90	89	92	92
MAXIMUM :	0.1360	24.00	4.50	26.47	292.10	20.71	1.00
MINIMUM :	0.0000	0.50	0.10	1.12	5.73	0.74	0.00
RANGE :	0.1360	23.50	4.40	25.35	286.37	19.97	1.00
ARITH. MEAN :	0.0122	3.73	0.62	6.32	45.55	6.69	0.26
ARITH. STD. DEV :	0.0187	4.06	0.78	4.72	47.52	4.00	0.14
GEOM. MEAN :	0.0065	2.40	0.38	5.00	31.99	5.30	0.25
GEOM. STD. DEV. :	3.2841	2.61	2.60	1.99	2.30	2.16	1.44
1ST QUARTILE :	0.0020	1.00	0.20	3.22	17.11	4.02	0.20
2ND QUARTILE :	0.0080	2.00	0.40	5.03	35.40	6.61	0.20
3RD QUARTILE :	0.0120	4.00	0.70	8.29	50.06	8.99	0.20
VOL. WGT. MEAN :	0.0107	3.48	0.55	6.23	43.32	6.50	0.25

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES :	90	91	92
MAXIMUM :	248.00	15.29	0.76
MINIMUM :	9.38	0.15	0.01
RANGE :	238.62	15.14	0.75
ARITH. MEAN :	46.76	1.69	0.11
ARITH. STD. DEV :	40.43	2.00	0.12
GEOM. MEAN :	36.26	1.09	0.08
GEOM. STD. DEV. :	2.00	2.56	2.24
1ST QUARTILE :	21.00	0.49	0.06
2ND QUARTILE :	37.62	1.22	0.08
3RD QUARTILE :	54.12	1.87	0.12
VOL. WGT. MEAN :	44.01	1.52	0.11



ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
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STATION NAME : NORTHWESTERN REGION/CUMULATIVE PRECIP.

PERIOD OF REPORT : JAN 2,85 TO JAN 3,86

PAGE : 1

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	98	95	96	96	97	95	95
MAXIMUM :	396.3	28.9	6.90	0.0501	0.0863	3.50	0.880
MINIMUM :	5.6	4.1	4.30	0.0001	0.0109	0.35	0.000
RANGE :	390.7	24.8	2.60	0.0500	0.0754	3.15	0.880
ARITH. MEAN :	68.9	12.1	5.14	0.0127	0.0347	1.16	0.236
ARITH. STD. DEV :	58.3	5.4	0.58	0.0106	0.0138	0.65	0.148
GEOM. MEAN :	49.2	11.0	5.11	0.0072	0.0322	1.02	0.203
GEOM. STD. DEV. :	2.4	1.5	1.11	3.7861	1.4821	1.64	1.905
1ST QUARTILE :	23.3	8.3	4.74	0.0046	0.0234	0.72	0.140
2ND QUARTILE :	58.0	10.5	4.97	0.0107	0.0320	0.97	0.210
3RD QUARTILE :	95.1	14.6	5.34	0.0182	0.0416	1.40	0.290
VOL. WGT. MEAN :	*****	11.1	*****	0.0115	0.0325	1.17	0.204

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	93	95	93	93	93	93	96
MAXIMUM :	1.670	3.840	1.180	0.555	0.155	2.200	0.710
MINIMUM :	0.050	0.000	0.030	0.002	0.000	0.002	0.000
RANGE :	1.620	3.840	1.150	0.553	0.155	2.197	0.710
ARITH. MEAN :	0.255	0.267	0.328	0.046	0.034	0.173	0.199
ARITH. STD. DEV :	0.236	0.597	0.212	0.070	0.030	0.362	0.171
GEOM. MEAN :	0.197	0.124	0.266	0.025	0.029	0.068	0.163
GEOM. STD. DEV. :	1.997	3.443	1.978	3.038	2.728	3.550	3.211
1ST QUARTILE :	0.115	0.027	0.180	0.008	0.008	0.030	0.055
2ND QUARTILE :	0.200	0.090	0.285	0.027	0.030	0.062	0.157
3RD QUARTILE :	0.325	0.190	0.425	0.050	0.050	0.127	0.292
VOL. WGT. MEAN :	0.253	0.133	0.336	0.040	0.033	0.089	0.221

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
-----

STATION NAME : NORTHWESTERN REGION/CUMULATIVE PRECIP.

PERIOD OF REPORT : JAN 2,85 TO JAN 3,86

PAGE : 2

	PHOSPHOR	MANGANSE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	93	87	87	87	87	87	87
MAXIMUM :	0.2430	41.00	4.40	110.30	543.00	22.23	1.40
MINIMUM :	0.0005	0.50	0.10	0.63	3.09	0.72	0.20
RANGE :	0.2425	40.50	4.30	109.67	539.91	21.51	1.20
ARITH. MEAN :	0.0171	3.89	0.44	6.44	59.32	4.76	0.25
ARITH. STD. DEV :	0.0275	4.90	0.71	12.36	76.41	4.03	0.17
GEOM. MEAN :	0.0090	2.61	0.25	3.99	38.32	3.43	0.23
GEOM. STD. DEV. :	3.2877	2.39	2.55	2.32	2.53	2.28	1.43
1ST QUARTILE :	0.0025	1.00	0.10	2.30	21.66	1.68	0.20
2ND QUARTILE :	0.0100	3.00	0.20	3.83	38.39	3.12	0.20
3RD QUARTILE :	0.0190	5.00	0.40	5.96	66.90	6.58	0.20
VOL. WGT. MEAN :	0.0125	4.38	0.42	4.64	55.60	3.87	0.25

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES :	87	87	87
MAXIMUM :	249.20	30.17	3.60
MINIMUM :	7.93	0.12	0.01
RANGE :	241.27	30.05	3.59
ARITH. MEAN :	54.81	1.75	0.12
ARITH. STD. DEV :	45.09	3.62	0.40
GEOM. MEAN :	42.52	0.84	0.05
GEOM. STD. DEV. :	2.03	3.08	2.79
1ST QUARTILE :	28.05	0.39	0.03
2ND QUARTILE :	41.40	0.84	0.05
3RD QUARTILE :	67.13	1.62	0.07
VOL. WGT. MEAN :	51.41	1.16	0.10

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
-----

STATION NAME : SOUTHEASTERN REGION/CUMULATIVE PRECIP.

PERIOD OF REPORT : JAN 2,85 TO DEC 31,85

PAGE : 1

	PRECIP.	CONDUCT.	PH	FREE H+	TOTAL H+	SULPHATE	NITRATE
	MM	UMHO/CM	LAB	LAB	GRAN	MG/L	AS N
				MG/L	MG/L		MG/L
# OF SAMPLES :	52	50	48	48	50	50	50
MAXIMUM :	150.0	50.6	5.27	0.0977	0.1240	5.70	1.260
MINIMUM :	4.0	7.9	4.01	0.0054	0.0252	0.70	0.140
RANGE :	146.0	42.7	1.26	0.0924	0.0988	5.00	1.120
ARITH. MEAN :	60.6	28.8	4.37	0.0484	0.0756	2.71	0.537
ARITH. STD. DEV :	26.5	9.7	0.24	0.0216	0.0251	1.26	0.232
GEOM. MEAN :	53.7	27.1	4.36	0.0429	0.0710	2.41	0.488
GEOM. STD. DEV. :	1.8	1.5	1.05	1.7216	1.4529	1.67	1.582
1ST QUARTILE :	40.0	21.9	4.18	0.0302	0.0586	1.60	0.380
2ND QUARTILE :	59.5	28.9	4.34	0.0462	0.0749	2.68	0.520
3RD QUARTILE :	78.6	34.5	4.52	0.0653	0.0926	3.57	0.630
VOL. WGT. MEAN :	*****	27.5	*****	0.0459	0.0734	2.62	0.482

	CALCIUM	CHLORIDE	KJELDAHL	MAGNESIM	POTASSIM	SODIUM	AMMONIUM
	MG/L	MG/L	AS N	MG/L	MG/L	MG/L	AS N
			MG/L				MG/L
# OF SAMPLES :	45	49	49	45	44	47	49
MAXIMUM :	1.070	0.450	1.270	0.250	0.175	0.270	0.885
MINIMUM :	0.020	0.020	0.120	0.002	0.000	0.005	0.060
RANGE :	1.050	0.430	1.150	0.248	0.175	0.265	0.825
ARITH. MEAN :	0.311	0.143	0.426	0.050	0.035	0.061	0.319
ARITH. STD. DEV :	0.231	0.094	0.257	0.045	0.033	0.057	0.213
GEOM. MEAN :	0.237	0.112	0.362	0.034	0.035	0.042	0.258
GEOM. STD. DEV. :	2.214	2.193	1.780	2.668	3.020	2.475	1.955
1ST QUARTILE :	0.135	0.090	0.220	0.020	0.006	0.025	0.152
2ND QUARTILE :	0.245	0.120	0.355	0.040	0.030	0.047	0.243
3RD QUARTILE :	0.395	0.180	0.545	0.060	0.052	0.070	0.438
VOL. WGT. MEAN :	0.271	0.126	0.383	0.043	0.029	0.054	0.291

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
-----

STATION NAME : SOUTHEASTERN REGION/CUMULATIVE PRECIP.

PERIOD OF REPORT : JAN 2,85 TO DEC 31,85

PAGE : 2

	PHOSPHOR	MANGANESE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	49	49	49	49	49	48	49
MAXIMUM :	0.0570	18.00	1.50	31.77	267.20	13.94	0.80
MINIMUM :	0.0000	0.50	0.10	1.00	6.00	0.59	0.20
RANGE :	0.0570	17.50	1.40	30.76	261.20	13.35	0.60
ARITH. MEAN :	0.0065	3.80	0.47	6.15	46.56	5.71	0.25
ARITH. STD. DEV :	0.0093	3.56	0.39	5.13	50.92	3.58	0.15
GEOM. MEAN :	0.0040	2.59	0.32	4.89	33.19	4.55	0.23
GEOM. STD. DEV. :	3.0560	2.50	2.45	1.94	2.19	2.10	1.44
1ST QUARTILE :	0.0015	1.00	0.10	3.20	18.36	3.24	0.20
2ND QUARTILE :	0.0025	3.00	0.40	4.61	30.59	4.84	0.20
3RD QUARTILE :	0.0075	5.00	0.60	7.47	52.25	8.03	0.20
VOL. WGT. MEAN :	0.0051	3.48	0.46	5.59	41.71	5.38	0.24

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES :	48	49	48
MAXIMUM :	235.00	13.01	0.69
MINIMUM :	12.07	0.05	0.01
RANGE :	222.93	12.96	0.68
ARITH. MEAN :	47.43	1.49	0.11
ARITH. STD. DEV :	40.05	2.07	0.12
GEOM. MEAN :	37.79	0.89	0.07
GEOM. STD. DEV. :	1.90	2.83	2.80
1ST QUARTILE :	22.96	0.59	0.04
2ND QUARTILE :	36.01	0.95	0.08
3RD QUARTILE :	56.59	1.75	0.16
VOL. WGT. MEAN :	43.91	1.26	0.11

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
-----

STATION NAME : SOUTHWESTERN REGION/CUMULATIVE PRECIP.

PERIOD OF REPORT : DEC 31,84 TO DEC 31,85

PAGE : 1

	PRECIP.	CONDUCT.	PH	FREE H+	TOTAL H+	SULPHATE	NITRATE
	MM	UMHO/CM	LAB	LAB	GRAN	MG/L	AS N
				MG/L	MG/L		MG/L
# OF SAMPLES :	**	**	**	**	**	**	**
MAXIMUM :	230.3	75.3	6.90	0.1318	0.1840	10.40	2.020
MINIMUM :	9.4	5.2	3.88	0.0001	0.0243	0.35	0.025
RANGE :	220.9	70.1	3.02	0.1317	0.1597	10.05	1.995
ARITH. MEAN :	78.8	34.7	4.37	0.0512	0.0810	3.92	0.645
ARITH. STD. DEV :	48.0	11.7	0.37	0.0241	0.0281	1.78	0.294
GEOM. MEAN :	63.8	32.6	4.36	0.0422	0.0760	3.52	0.580
GEOM. STD. DEV. :	2.0	1.5	1.08	2.3488	1.4552	1.63	1.671
1ST QUARTILE :	40.5	26.0	4.18	0.0316	0.0597	2.67	0.470
2ND QUARTILE :	71.0	35.1	4.26	0.0550	0.0821	3.60	0.580
3RD QUARTILE :	105.0	41.6	4.49	0.0646	0.0996	4.77	0.740
VOL. WGT. MEAN :	*****	33.4	*****	0.0533	0.0817	3.56	0.561

	CALCIUM	CHLORIDE	KJELDAHL	MAGNESIM	POTASSIM	SODIUM	AMMONIUM
	MG/L	MG/L	AS N	MG/L	MG/L	MG/L	AS N
			MG/L				MG/L
# OF SAMPLES :	99	107	105	101	98	101	108
MAXIMUM :	2.520	5.050	3.270	0.605	0.285	3.350	1.950
MINIMUM :	0.020	0.015	0.080	0.005	0.000	0.008	0.030
RANGE :	2.500	5.035	3.190	0.600	0.285	3.342	1.920
ARITH. MEAN :	0.542	0.286	0.645	0.108	0.052	0.108	0.513
ARITH. STD. DEV :	0.439	0.547	0.442	0.101	0.050	0.330	0.330
GEOM. MEAN :	0.410	0.192	0.542	0.079	0.038	0.062	0.422
GEOM. STD. DEV. :	2.204	2.123	1.790	2.191	2.811	2.255	1.923
1ST QUARTILE :	0.260	0.120	0.380	0.045	0.020	0.035	0.272
2ND QUARTILE :	0.420	0.185	0.570	0.077	0.040	0.060	0.462
3RD QUARTILE :	0.665	0.290	0.720	0.120	0.065	0.108	0.640
VOL. WGT. MEAN :	0.411	0.203	0.569	0.076	0.045	0.074	0.453

\*\*\*\*\* : INSUFFICIENT DATA OR NOT APPLICABLE  
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
-----

STATION NAME : SOUTHWESTERN REGION/CUMULATIVE PRECIP.

PERIOD OF REPORT : DEC 31,84 TO DEC 31,85

PAGE : 2

	PHOSPHOR	MANGANSE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	104	106	107	107	104	108	108
MAXIMUM :	0.1420	30.00	3.00	35.56	885.70	21.45	1.50
MINIMUM :	0.0000	0.50	0.10	1.15	6.97	0.62	0.20
RANGE :	0.1420	29.50	2.90	34.41	878.72	20.83	1.30
ARITH. MEAN :	0.0135	5.55	0.69	9.97	88.96	7.11	0.36
ARITH. STD. DEV :	0.0221	5.23	0.63	7.05	112.43	4.50	0.29
GEOM. MEAN :	0.0071	3.77	0.45	7.92	55.79	5.76	0.29
GEOM. STD. DEV. :	3.2124	2.54	2.59	2.02	2.57	2.01	1.79
1ST QUARTILE :	0.0025	2.00	0.20	5.18	25.15	3.95	0.20
2ND QUARTILE :	0.0070	4.50	0.40	8.09	62.85	6.45	0.20
3RD QUARTILE :	0.0135	6.50	1.10	12.62	100.42	9.15	0.40
VOL. WGT. MEAN :	0.0137	4.29	0.73	8.07	64.40	6.24	0.33

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES :	103	107	106
MAXIMUM :	892.00	9.59	2.27
MINIMUM :	9.36	0.12	0.01
RANGE :	882.64	9.47	2.26
ARITH. MEAN :	83.70	1.58	0.25
ARITH. STD. DEV :	107.17	1.43	0.39
GEOM. MEAN :	55.80	1.08	0.12
GEOM. STD. DEV. :	2.33	2.56	3.06
1ST QUARTILE :	27.92	0.63	0.06
2ND QUARTILE :	54.86	1.17	0.10
3RD QUARTILE :	100.24	2.10	0.19
VOL. WGT. MEAN :	59.10	1.37	0.23

PART V

SUMMARY STATISTICS OF WET DEPOSITION BY STATION

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : ALVINSTON/CUMULATIVE PRECIP.

#05

PERIOD OF REPORT : JAN 2, 85 TO DEC 31,85

PAGE : 1

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	11	11	0	11	11	11	11
MAXIMUM :	161.0	11.9351	*****	571.55	85.330	101.400	19.500
MINIMUM :	19.0	0.7210	*****	31.25	15.250	11.000	5.490
RANGE :	142.0	11.2141	*****	540.30	70.080	90.400	14.010
ARITH. MEAN :	69.3	3.4647	*****	224.81	36.419	33.590	11.484
ARITH. STD. DEV :	44.6	2.9382	*****	142.69	18.928	25.596	5.390
GEOM. MEAN :	57.0	2.7811	*****	182.15	32.750	27.356	10.366
GEOM. STD. DEV. :	2.0	1.9586	*****	2.12	1.614	1.913	1.611
1ST QUARTILE :	27.5	1.9226	*****	110.52	21.465	15.005	6.040
2ND QUARTILE :	57.0	2.7478	*****	217.12	32.340	24.790	9.300
3RD QUARTILE :	88.5	3.3812	*****	249.90	39.315	40.360	17.255
VOL. WGT. MEAN :	*****	3.4647	*****	224.81	36.419	33.590	11.484

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	KJELDAHL AS N MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANESE MG/M**2
# OF SAMPLES :	11	11	11	11	11	11	11
MAXIMUM :	53.130	10.400	37.050	9.240	38.640	0.7800	0.5100
MINIMUM :	7.000	1.625	0.465	1.800	4.125	0.0610	0.1000
RANGE :	46.130	8.775	36.585	7.440	34.515	0.7190	0.4100
ARITH. MEAN :	27.690	5.035	5.840	3.881	22.010	0.3224	0.3023
ARITH. STD. DEV :	13.321	2.437	10.497	2.183	11.092	0.2405	0.1389
GEOM. MEAN :	24.249	4.500	2.647	3.441	18.718	0.2447	0.2668
GEOM. STD. DEV. :	1.797	1.675	3.362	1.647	1.944	2.2649	1.7547
1ST QUARTILE :	14.475	2.900	0.862	2.037	11.542	0.1155	0.1470
2ND QUARTILE :	25.835	4.342	2.465	3.177	19.687	0.2422	0.3135
3RD QUARTILE :	35.690	6.000	4.635	4.650	30.305	0.4012	0.4050
VOL. WGT. MEAN :	27.690	5.035	5.840	3.881	22.010	0.3224	0.3023

\*\*\*\*\* : INSUFFICIENT DATA

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.



ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
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STATION NAME : ALVINSTON/CUMULATIVE PRECIP. #05

PERIOD OF REPORT : JAN 2, 85 TO DEC 31,85

PAGE : 2

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	11	11	11	11	11	11	11
MAXIMUM :	0.1449	0.839	9.0090	0.7459	0.037	10.569	0.1255
MINIMUM :	0.0061	0.169	1.5551	0.0811	0.004	1.895	0.0347
RANGE :	0.1388	0.670	7.4539	0.6649	0.033	8.674	0.0908
ARITH. MEAN :	0.0405	0.465	4.1516	0.3108	0.018	4.301	0.0700
ARITH. STD. DEV :	0.0396	0.223	2.4661	0.1765	0.010	2.638	0.0285
GEOM. MEAN :	0.0278	0.411	3.5742	0.2692	0.015	3.709	0.0649
GEOM. STD. DEV. :	2.5115	1.719	1.7648	1.7920	1.909	1.743	1.5104
1ST QUARTILE :	0.0122	0.227	2.1433	0.1762	0.010	2.134	0.0411
2ND QUARTILE :	0.0259	0.446	3.2083	0.2745	0.014	3.003	0.0603
3RD QUARTILE :	0.0476	0.588	5.1319	0.3385	0.023	5.819	0.0876
VOL. WGT. MEAN :	0.0405	0.465	4.1516	0.3108	0.018	4.301	0.0700

CADMIUM

MG/M\*\*2

# OF SAMPLES :	11
MAXIMUM :	0.11424
MINIMUM :	0.00054
RANGE :	0.11370
ARITH. MEAN :	0.02495
ARITH. STD. DEV :	0.04147
GEOM. MEAN :	0.00825
GEOM. STD. DEV. :	4.76699
1ST QUARTILE :	0.00280
2ND QUARTILE :	0.00665
3RD QUARTILE :	0.01237
VOL. WGT. MEAN :	0.02495

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ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : AZURE LAKE/CUMULATIVE PRECIP. #26

PERIOD OF REPORT : JAN 29, 85 TO JAN 2,86

PAGE : 1

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	12	12	0	12	12	12	12
MAXIMUM :	109.0	5.9351	*****	263.90	35.000	21.800	10.281
MINIMUM :	44.7	1.0501	*****	40.23	10.000	0.000	0.700
RANGE :	64.3	4.8850	*****	223.67	25.000	21.800	9.581
ARITH. MEAN :	68.1	2.6453	*****	131.04	21.777	9.410	5.043
ARITH. STD. DEV :	20.5	1.2985	*****	71.05	8.166	6.247	3.020
GEOM. MEAN :	65.6	2.4047	*****	112.54	20.419	7.419	3.890
GEOM. STD. DEV. :	1.3	1.5670	*****	1.82	1.458	1.760	2.353
1ST QUARTILE :	52.5	1.9486	*****	74.14	16.210	4.992	1.774
2ND QUARTILE :	67.0	2.3992	*****	122.65	18.984	7.635	6.020
3RD QUARTILE :	72.0	2.7312	*****	177.65	29.020	14.750	7.070
VOL. WGT. MEAN :	*****	2.6453	*****	131.04	21.777	9.410	5.043

	KJELDAHL AS N MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANSE MG/M**2
# OF SAMPLES :	12	12	12	12	12	12	12
MAXIMUM :	41.420	2.725	3.500	7.152	33.790	1.2000	0.8120
MINIMUM :	1.341	0.170	0.000	0.137	0.000	0.0700	0.0275
RANGE :	40.079	2.555	3.500	7.014	33.790	1.1300	0.7845
ARITH. MEAN :	19.096	1.488	1.644	1.770	12.667	0.5071	0.1812
ARITH. STD. DEV :	11.882	0.907	1.421	2.031	9.906	0.4144	0.2169
GEOM. MEAN :	14.228	1.098	1.036	1.010	8.856	0.3390	0.1102
GEOM. STD. DEV. :	2.611	2.600	3.523	3.107	2.143	2.7551	2.7847
1ST QUARTILE :	7.920	0.627	0.199	0.472	4.240	0.1367	0.0473
2ND QUARTILE :	21.740	1.557	1.530	0.700	11.425	0.3762	0.1180
3RD QUARTILE :	25.550	2.265	3.200	2.681	20.685	0.9140	0.2200
VOL. WGT. MEAN :	19.096	1.488	1.644	1.770	12.667	0.5071	0.1812

\*\*\*\*\* : INSUFFICIENT DATA

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : AZURE LAKE/CUMULATIVE PRECIP. #26

PERIOD OF REPORT : JAN 29, 85 TO JAN 2,86

PAGE : 2

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	12	12	12	12	12	12	12
MAXIMUM :	0.1160	0.762	7.0122	0.7521	0.028	6.914	0.2351
MINIMUM :	0.0048	0.102	0.3153	0.0890	0.009	0.590	0.0115
RANGE :	0.1112	0.660	6.6969	0.6631	0.019	6.323	0.2237
ARITH. MEAN :	0.0335	0.292	2.3219	0.3391	0.016	2.428	0.1066
ARITH. STD. DEV. :	0.0279	0.186	1.8223	0.1980	0.007	1.623	0.0727
GEOM. MEAN :	0.0263	0.246	1.7171	0.2842	0.015	2.050	0.0811
GEOM. STD. DEV. :	2.1005	1.833	2.3906	1.9164	1.492	1.834	2.3744
1ST QUARTILE :	0.0191	0.147	1.1030	0.1615	0.010	1.473	0.0507
2ND QUARTILE :	0.0290	0.259	2.0850	0.3101	0.014	2.004	0.0910
3RD QUARTILE :	0.0340	0.389	3.0734	0.4871	0.021	2.806	0.1446
VOL. WGT. MEAN :	0.0335	0.292	2.3219	0.3391	0.016	2.428	0.1066

CADMIUM

MG/M\*\*2

# OF SAMPLES :	12
MAXIMUM :	0.00870
MINIMUM :	0.00220
RANGE :	0.00650
ARITH. MEAN :	0.00449
ARITH. STD. DEV. :	0.00188
GEOM. MEAN :	0.00416
GEOM. STD. DEV. :	1.49106
1ST QUARTILE :	0.00333
2ND QUARTILE :	0.00411
3RD QUARTILE :	0.00559
VOL. WGT. MEAN :	0.00449

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ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BEAR ISLAND/CUMULATIVE PRECIP. #24

PERIOD OF REPORT : JAN 2, 85 TO OCT 8,85

PAGE : 1

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	7	7	0	6	6	5	6
MAXIMUM :	95.0	6.1337	*****	277.20	33.640	16.240	10.500
MINIMUM :	18.0	0.8615	*****	15.30	7.859	0.375	1.626
RANGE :	77.0	5.2722	*****	261.90	25.781	15.865	8.874
ARITH. MEAN :	52.6	2.5677	*****	124.16	21.648	6.459	6.531
ARITH. STD. DEV :	28.6	1.8188	*****	88.68	10.729	6.260	3.396
GEOM. MEAN :	45.2	2.0937	*****	91.79	18.903	3.490	5.554
GEOM. STD. DEV. :	1.9	1.9946	*****	2.68	1.842	4.384	2.000
1ST QUARTILE :	22.6	1.0088	*****	44.91	8.969	1.087	2.883
2ND QUARTILE :	43.5	1.8988	*****	116.47	24.155	3.881	6.530
3RD QUARTILE :	70.5	3.0126	*****	142.10	28.860	6.941	8.560
VOL. WGT. MEAN :	*****	2.5677	*****	143.45	25.010	6.958	7.545

	KJELDAHL AS N MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANSE MG/M**2
# OF SAMPLES :	6	6	5	6	7	6	5
MAXIMUM :	83.160	4.785	10.230	4.620	266.000	4.4220	0.3960
MINIMUM :	1.980	0.135	0.540	0.540	1.260	0.0360	0.0360
RANGE :	81.180	4.650	9.690	4.080	264.740	4.3860	0.3600
ARITH. MEAN :	24.621	1.942	3.938	2.768	50.689	1.7532	0.1463
ARITH. STD. DEV :	29.392	1.955	3.954	1.471	96.326	1.9511	0.1431
GEOM. MEAN :	14.318	1.047	2.423	2.288	13.721	0.5910	0.1061
GEOM. STD. DEV. :	3.351	3.953	3.234	2.179	5.597	7.5705	2.3883
1ST QUARTILE :	5.865	0.255	0.832	1.218	2.877	0.0555	0.0555
2ND QUARTILE :	16.269	1.199	1.850	2.900	8.935	1.0212	0.0917
3RD QUARTILE :	18.560	2.705	3.897	3.615	32.600	2.6680	0.1122
VOL. WGT. MEAN :	28.445	2.244	4.242	3.198	50.689	2.0255	0.1576

\*\*\*\*\* : INSUFFICIENT DATA

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION  
(SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
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STATION NAME : BEAR ISLAND/CUMULATIVE PRECIP. #24

PERIOD OF REPORT : JAN 2, 85 TO OCT 8,85

PAGE : 2

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	6	6	6	6	6	6	6
MAXIMUM :	0.0667	1.022	6.6264	0.7064	0.019	6.597	0.2043
MINIMUM :	0.0163	0.126	0.7935	0.0419	0.004	0.941	0.0139
RANGE :	0.0504	0.897	5.8329	0.6646	0.015	5.656	0.1904
ARITH. MEAN :	0.0351	0.466	2.2864	0.3315	0.012	2.385	0.0823
ARITH. STD. DEV :	0.0201	0.355	2.1939	0.2354	0.005	2.186	0.0648
GEOM. MEAN :	0.0308	0.360	1.7203	0.2378	0.011	1.822	0.0624
GEOM. STD. DEV. :	1.7301	2.244	2.1610	2.8112	1.785	2.118	2.4019
1ST QUARTILE :	0.0189	0.156	0.8435	0.0789	0.008	0.978	0.0333
2ND QUARTILE :	0.0266	0.349	1.6064	0.3677	0.012	1.425	0.0669
3RD QUARTILE :	0.0414	0.586	2.0259	0.3812	0.014	2.261	0.0796
VOL. WGT. MEAN :	0.0405	0.539	2.6415	0.3830	0.014	2.756	0.0950

CADMIUM

MG/M\*\*2

# OF SAMPLES :	6
MAXIMUM :	0.00990
MINIMUM :	0.00234
RANGE :	0.00756
ARITH. MEAN :	0.00574
ARITH. STD. DEV :	0.00294
GEOM. MEAN :	0.00509
GEOM. STD. DEV. :	1.73475
1ST QUARTILE :	0.00293
2ND QUARTILE :	0.00522
3RD QUARTILE :	0.00731
VOL. WGT. MEAN :	0.00663

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : CAMPBELLFORD/CUMULATIVE PRECIP. #13

PERIOD OF REPORT : JAN 2, 85 TO DEC 31,85

PAGE : 1

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	11	10	0	10	10	9	10
MAXIMUM :	165.0	4.6442	*****	750.75	85.800	168.300	23.100
MINIMUM :	20.0	0.6517	*****	63.55	21.870	10.230	2.025
RANGE :	145.0	3.9925	*****	687.20	63.930	158.070	21.075
ARITH. MEAN :	68.8	2.7731	*****	258.53	42.021	47.468	12.454
ARITH. STD. DEV :	45.5	1.0938	*****	210.28	20.945	51.215	6.699
GEOM. MEAN :	56.0	2.5078	*****	195.77	38.036	30.770	10.336
GEOM. STD. DEV. :	2.0	1.7077	*****	2.21	1.581	2.620	2.072
1ST QUARTILE :	28.0	2.1859	*****	98.77	26.025	12.485	6.625
2ND QUARTILE :	55.3	2.6486	*****	188.62	31.675	24.000	12.930
3RD QUARTILE :	84.0	3.1826	*****	326.64	52.382	46.966	14.902
VOL. WGT. MEAN :	*****	2.8487	*****	265.58	43.167	45.589	12.794

	KJELDAHL AS N MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANSE MG/M**2
# OF SAMPLES :	10	10	10	10	10	10	9
MAXIMUM :	169.950	10.725	38.775	9.610	132.000	14.0250	1.1550
MINIMUM :	11.200	0.600	0.000	0.412	4.805	0.1600	0.0400
RANGE :	158.750	10.125	38.775	9.197	127.195	13.8650	1.1150
ARITH. MEAN :	51.496	4.309	5.878	3.925	36.659	2.1898	0.4490
ARITH. STD. DEV :	50.798	3.406	11.831	3.023	38.812	4.2640	0.3996
GEOM. MEAN :	34.652	2.889	2.086	2.774	22.792	0.7526	0.2736
GEOM. STD. DEV. :	2.530	2.856	4.005	2.656	2.861	4.0761	3.2207
1ST QUARTILE :	13.480	0.924	0.566	1.175	8.447	0.2012	0.1005
2ND QUARTILE :	30.525	3.875	1.675	3.500	25.962	0.7160	0.2250
3RD QUARTILE :	64.188	6.431	2.728	4.691	45.155	1.1224	0.6747
VOL. WGT. MEAN :	52.900	4.426	6.038	4.032	37.658	2.2495	0.4353

\*\*\*\*\* : INSUFFICIENT DATA

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : CAMPBELLFORD/CUMULATIVE PRECIP. #13

PERIOD OF REPORT : JAN 2, 85 TO DEC 31,85

PAGE : 2

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	9	9	9	9	9	9	9
MAXIMUM :	0.1320	1.728	10.2830	0.8886	0.035	19.561	0.2408
MINIMUM :	0.0025	0.117	0.9898	0.1386	0.004	1.288	0.0197
RANGE :	0.1295	1.610	9.2932	0.7500	0.031	18.273	0.2211
ARITH. MEAN :	0.0336	0.524	5.2637	0.4579	0.018	6.179	0.0646
ARITH. STD. DEV. :	0.0407	0.503	3.7533	0.2529	0.011	6.376	0.0684
GEOM. MEAN :	0.0192	0.381	3.7880	0.3941	0.014	3.906	0.0477
GEOM. STD. DEV. :	3.1681	2.269	2.5616	1.8288	2.085	2.736	2.1070
1ST QUARTILE :	0.0100	0.202	1.5119	0.2513	0.007	1.667	0.0263
2ND QUARTILE :	0.0165	0.379	4.3108	0.3540	0.015	2.220	0.0408
3RD QUARTILE :	0.0266	0.410	7.4235	0.5592	0.021	6.979	0.0554
VOL. WGT. MEAN :	0.0326	0.508	5.1028	0.4439	0.017	5.990	0.0627

CADMIUM

MG/M\*\*2

# OF SAMPLES :	9
MAXIMUM :	0.03072
MINIMUM :	0.00180
RANGE :	0.02892
ARITH. MEAN :	0.01294
ARITH. STD. DEV. :	0.01063
GEOM. MEAN :	0.00854
GEOM. STD. DEV. :	2.86287
1ST QUARTILE :	0.00330
2ND QUARTILE :	0.00890
3RD QUARTILE :	0.01740
VOL. WGT. MEAN :	0.01255

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : CLOYNE/CUMULATIVE PRECIP.

#14

PERIOD OF REPORT : JAN 2, 85 TO DEC 31,85

PAGE : 1

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	13	13	0	13	13	13	13
MAXIMUM :	150.0	7.6929	*****	435.00	57.330	48.150	19.110
MINIMUM :	22.0	0.8189	*****	29.70	24.300	1.820	3.000
RANGE :	128.0	6.8741	*****	405.30	33.030	46.330	16.110
ARITH. MEAN :	72.0	3.8548	*****	197.78	36.037	16.099	8.105
ARITH. STD. DEV :	33.3	1.8760	*****	106.56	9.203	13.038	4.314
GEOM. MEAN :	64.9	3.4015	*****	167.19	35.002	11.325	7.157
GEOM. STD. DEV. :	1.6	1.7543	*****	1.96	1.285	2.580	1.687
1ST QUARTILE :	48.0	3.0288	*****	134.37	27.160	5.822	4.225
2ND QUARTILE :	63.5	3.4097	*****	174.32	35.408	13.210	7.200
3RD QUARTILE :	85.5	3.6348	*****	224.00	39.745	20.460	9.800
VOL. WGT. MEAN :	*****	3.8548	*****	197.78	36.037	16.099	8.105

	KJELDAHL AS N MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANSE MG/M**2
# OF SAMPLES :	13	13	13	13	13	13	12
MAXIMUM :	44.550	4.675	4.400	8.190	38.500	1.1000	0.8800
MINIMUM :	9.240	0.237	0.000	0.412	3.520	0.0390	0.0475
RANGE :	35.310	4.437	4.400	7.777	34.980	1.0610	0.8325
ARITH. MEAN :	24.360	1.935	1.614	3.132	20.027	0.3100	0.2038
ARITH. STD. DEV :	10.469	1.395	1.264	2.489	10.759	0.3004	0.2291
GEOM. MEAN :	22.157	1.416	1.250	2.175	16.874	0.1974	0.1421
GEOM. STD. DEV. :	1.598	2.457	2.465	2.592	1.949	2.8172	2.2633
1ST QUARTILE :	14.820	0.724	0.443	0.962	10.292	0.0912	0.0905
2ND QUARTILE :	21.675	1.562	1.692	2.112	16.807	0.1700	0.1300
3RD QUARTILE :	31.260	2.570	2.180	4.515	26.925	0.4075	0.2240
VOL. WGT. MEAN :	24.360	1.935	1.614	3.132	20.027	0.3100	0.1927

\*\*\*\*\* : INSUFFICIENT DATA

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.



ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : CLOYNE/CUMULATIVE PRECIP.

#14

PERIOD OF REPORT : JAN 2, 85 TO DEC 31,85

PAGE : 2

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	12	12	12	12	12	12	12
MAXIMUM :	0.1350	0.571	14.1185	0.7669	0.030	12.925	0.1282
MINIMUM :	0.0040	0.123	0.7200	0.1234	0.008	1.098	0.0130
RANGE :	0.1310	0.448	13.3985	0.6435	0.022	11.827	0.1152
ARITH. MEAN :	0.0313	0.336	3.1951	0.3250	0.015	3.133	0.0599
ARITH. STD. DEV. :	0.0372	0.116	3.5946	0.2083	0.006	3.210	0.0341
GEOM. MEAN :	0.0186	0.314	2.2956	0.2771	0.014	2.415	0.0494
GEOM. STD. DEV. :	2.8831	1.495	2.1627	1.7711	1.471	1.939	2.0349
1ST QUARTILE :	0.0075	0.296	1.2430	0.1794	0.011	1.536	0.0335
2ND QUARTILE :	0.0193	0.324	2.4100	0.2651	0.015	2.351	0.0592
3RD QUARTILE :	0.0379	0.400	2.8941	0.3656	0.019	3.069	0.0852
VOL. WGT. MEAN :	0.0295	0.317	3.0202	0.3072	0.014	2.962	0.0566

CADMIUM

MG/M\*\*2

# OF SAMPLES :	12
MAXIMUM :	0.01126
MINIMUM :	0.00080
RANGE :	0.01046
ARITH. MEAN :	0.00442
ARITH. STD. DEV. :	0.00309
GEOM. MEAN :	0.00333
GEOM. STD. DEV. :	2.34230
1ST QUARTILE :	0.00151
2ND QUARTILE :	0.00489
3RD QUARTILE :	0.00573
VOL. WGT. MEAN :	0.00418

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : COLCHESTER/CUMULATIVE PRECIP. #01

PERIOD OF REPORT : JAN 1, 85 TO DEC 31,85

PAGE : 1

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	13	13	0	13	13	12	13
MAXIMUM :	230.3	9.6485	*****	1427.86	170.422	142.786	52.969
MINIMUM :	16.0	0.8206	*****	48.05	11.040	10.360	4.080
RANGE :	214.3	8.8279	*****	1379.81	159.382	132.426	48.889
ARITH. MEAN :	84.6	4.4662	*****	350.47	46.714	35.897	22.236
ARITH. STD. DEV :	56.2	2.9801	*****	354.49	40.704	36.768	14.853
GEOM. MEAN :	68.2	3.4372	*****	246.06	36.468	26.848	17.658
GEOM. STD. DEV. :	2.1	2.2647	*****	2.42	2.030	2.050	2.132
1ST QUARTILE :	35.5	1.9688	*****	151.45	22.700	17.510	12.525
2ND QUARTILE :	71.5	3.5674	*****	272.65	34.490	24.465	17.545
3RD QUARTILE :	107.5	5.7836	*****	311.10	52.520	31.910	27.010
VOL. WGT. MEAN :	*****	4.4662	*****	350.47	46.714	36.561	22.236

	KJELDAHL AS N MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANSE MG/M**2
# OF SAMPLES :	12	12	12	12	13	12	13
MAXIMUM :	419.146	31.090	44.908	21.878	340.844	32.7026	0.9212
MINIMUM :	11.360	2.775	0.000	2.160	3.875	0.0740	0.0800
RANGE :	407.786	28.315	44.908	19.718	336.969	32.6286	0.8412
ARITH. MEAN :	77.419	7.429	7.004	7.343	51.890	3.3270	0.2848
ARITH. STD. DEV :	112.330	7.673	12.205	5.761	88.052	9.2756	0.2260
GEOM. MEAN :	45.943	5.805	3.670	5.734	27.404	0.6113	0.2252
GEOM. STD. DEV. :	2.615	1.872	2.638	2.068	2.940	4.8046	2.0065
1ST QUARTILE :	32.855	3.980	2.107	2.860	13.425	0.2217	0.1190
2ND QUARTILE :	43.740	5.385	3.435	6.045	33.575	0.4975	0.2140
3RD QUARTILE :	54.105	6.842	5.480	9.287	40.482	0.9540	0.3525
VOL. WGT. MEAN :	73.537	7.566	7.133	7.479	51.890	3.1602	0.2848

\*\*\*\*\* : INSUFFICIENT DATA

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

---

STATION NAME : COLCHESTER/CUMULATIVE PRECIP. #01

PERIOD OF REPORT : JAN 1, 85 TO DEC 31,85

PAGE : 2

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	13	13	13	13	13	13	12
MAXIMUM :	0.5988	3.404	14.0667	1.1791	0.046	17.853	0.8420
MINIMUM :	0.0080	0.161	1.6091	0.0758	0.003	1.393	0.0074
RANGE :	0.5908	3.242	12.4576	1.1033	0.043	16.460	0.8346
ARITH. MEAN :	0.0887	0.897	4.6797	0.4215	0.023	5.742	0.1792
ARITH. STD. DEV :	0.1595	0.797	3.6158	0.3323	0.012	4.699	0.2619
GEOM. MEAN :	0.0413	0.712	3.7161	0.3129	0.019	4.351	0.0831
GEOM. STD. DEV. :	3.1198	1.971	1.9885	2.2962	2.062	2.163	3.5698
1ST QUARTILE :	0.0159	0.521	1.8892	0.1800	0.013	2.479	0.0484
2ND QUARTILE :	0.0375	0.717	3.3708	0.2791	0.021	3.341	0.0649
3RD QUARTILE :	0.0524	0.802	5.2573	0.5241	0.026	6.919	0.1562
VOL. WGT. MEAN :	0.0887	0.897	4.6797	0.4215	0.023	5.742	0.1678

CADMIUM

MG/M\*\*2

# OF SAMPLES :	13
MAXIMUM :	0.04876
MINIMUM :	0.00116
RANGE :	0.04760
ARITH. MEAN :	0.01076
ARITH. STD. DEV :	0.01284
GEOM. MEAN :	0.00703
GEOM. STD. DEV. :	2.49516
1ST QUARTILE :	0.00442
2ND QUARTILE :	0.00636
3RD QUARTILE :	0.00863
VOL. WGT. MEAN :	0.01076

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : COLDWATER/CUMULATIVE PRECIP.

#12

PERIOD OF REPORT : DEC 31, 84 TO JAN 3,86

PAGE : 1

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	13	13	0	13	13	13	13
MAXIMUM :	243.0	6.8487	*****	826.20	89.910	37.296	36.600
MINIMUM :	29.0	0.8738	*****	38.50	9.900	7.140	1.132
RANGE :	214.0	5.9749	*****	787.70	80.010	30.156	35.468
ARITH. MEAN :	84.2	2.7971	*****	204.78	35.444	24.284	13.356
ARITH. STD. DEV :	54.6	1.7606	*****	197.20	20.058	12.343	9.977
GEOM. MEAN :	72.8	2.3470	*****	157.28	30.871	20.613	9.770
GEOM. STD. DEV. :	1.7	1.8599	*****	2.04	1.749	1.906	2.517
1ST QUARTILE :	52.3	1.2888	*****	114.43	23.184	10.770	5.952
2ND QUARTILE :	59.0	2.3787	*****	132.70	30.774	23.745	9.975
3RD QUARTILE :	100.0	2.9021	*****	221.52	39.060	35.999	16.735
VOL. WGT. MEAN :	*****	2.7971	*****	204.78	35.444	24.284	13.356

	KJELDAHL AS N MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANSE MG/M**2
# OF SAMPLES :	13	13	13	13	13	13	12
MAXIMUM :	247.860	7.290	25.515	15.555	182.250	28.4310	1.4580
MINIMUM :	11.520	0.000	0.000	0.290	6.120	0.0720	0.0510
RANGE :	236.340	7.290	25.515	15.265	176.130	28.3590	1.4070
ARITH. MEAN :	43.990	3.533	3.756	5.457	32.808	2.9818	0.3490
ARITH. STD. DEV :	62.302	2.469	6.797	4.433	46.313	7.6961	0.4067
GEOM. MEAN :	29.258	2.694	1.558	3.459	20.520	0.6895	0.2177
GEOM. STD. DEV. :	2.197	2.358	4.082	3.225	2.450	4.9219	2.6526
1ST QUARTILE :	16.310	1.495	0.325	1.860	10.110	0.2870	0.1040
2ND QUARTILE :	26.800	2.915	1.705	3.648	17.975	0.6736	0.2010
3RD QUARTILE :	34.931	4.987	2.839	7.420	28.767	0.9410	0.3990
VOL. WGT. MEAN :	43.990	3.533	3.756	5.457	32.808	2.9818	0.3581

\*\*\*\*\* : INSUFFICIENT DATA

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
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STATION NAME : COLDWATER/CUMULATIVE PRECIP. #12

PERIOD OF REPORT : DEC 31, 84 TO JAN 3, 86

PAGE : 2

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	12	12	12	12	12	12	12
MAXIMUM :	0.0342	0.842	20.6307	0.8174	0.049	14.535	0.4437
MINIMUM :	0.0048	0.088	0.7138	0.1976	0.006	1.022	0.0150
RANGE :	0.0294	0.754	19.9169	0.6198	0.043	13.513	0.4287
ARITH. MEAN :	0.0194	0.435	4.6782	0.4495	0.020	4.814	0.1306
ARITH. STD. DEV :	0.0097	0.274	5.5277	0.1948	0.012	4.688	0.1496
GEOM. MEAN :	0.0166	0.343	3.0034	0.4101	0.017	3.238	0.0760
GEOM. STD. DEV. :	1.9009	2.169	2.5486	1.5800	1.846	2.493	2.9609
1ST QUARTILE :	0.0122	0.204	1.5703	0.2940	0.010	1.601	0.0382
2ND QUARTILE :	0.0205	0.392	2.7676	0.4328	0.020	2.982	0.0783
3RD QUARTILE :	0.0268	0.696	5.4996	0.5924	0.026	6.844	0.1498
VOL. WGT. MEAN :	0.0199	0.446	4.8006	0.4613	0.021	4.940	0.1340

CADMIUM

MG/M\*\*2

# OF SAMPLES :	11
MAXIMUM :	0.01159
MINIMUM :	0.00087
RANGE :	0.01072
ARITH. MEAN :	0.00565
ARITH. STD. DEV :	0.00276
GEOM. MEAN :	0.00479
GEOM. STD. DEV. :	2.01364
1ST QUARTILE :	0.00345
2ND QUARTILE :	0.00573
3RD QUARTILE :	0.00663
VOL. WGT. MEAN :	0.00564

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DALHOUSIE MILLS/CUMULATIVE PRECIP. #16

PERIOD OF REPORT : JAN 2, 85 TO DEC 31,85

PAGE : 1

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	13	11	0	12	12	10	11
MAXIMUM :	91.0	4.8848	*****	362.49	58.520	36.400	17.710
MINIMUM :	20.0	0.4243	*****	41.80	10.500	5.530	4.900
RANGE :	71.0	4.4606	*****	320.69	48.020	30.870	12.810
ARITH. MEAN :	60.6	2.3154	*****	166.32	28.868	18.898	9.519
ARITH. STD. DEV :	23.2	1.6185	*****	102.38	15.138	9.111	4.122
GEOM. MEAN :	55.6	1.7761	*****	138.15	25.322	16.802	8.850
GEOM. STD. DEV. :	1.6	2.2419	*****	1.94	1.727	1.713	1.472
1ST QUARTILE :	36.5	0.8539	*****	88.25	18.410	11.750	7.155
2ND QUARTILE :	63.5	1.4517	*****	154.42	23.965	17.555	7.520
3RD QUARTILE :	78.0	3.4713	*****	195.82	41.335	22.670	10.320
VOL. WGT. MEAN :	*****	2.2583	*****	157.52	27.341	18.362	9.285

	KJELDAHL AS N MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANSE MG/M**2
# OF SAMPLES :	11	10	9	11	11	11	12
MAXIMUM :	44.450	5.600	5.460	18.124	38.000	1.9950	0.6744
MINIMUM :	9.500	0.395	0.197	1.225	5.510	0.0000	0.0375
RANGE :	34.950	5.205	5.262	16.899	32.490	1.9950	0.6369
ARITH. MEAN :	28.476	2.918	2.816	4.854	19.968	0.4629	0.3304
ARITH. STD. DEV :	12.834	1.622	1.907	4.774	10.343	0.5576	0.2152
GEOM. MEAN :	25.170	2.401	1.994	3.584	17.133	0.3658	0.2478
GEOM. STD. DEV. :	1.754	2.132	2.899	2.166	1.868	2.4973	2.4456
1ST QUARTILE :	12.755	1.635	1.385	1.842	9.112	0.1047	0.1150
2ND QUARTILE :	29.865	2.780	2.065	2.955	17.712	0.2102	0.3420
3RD QUARTILE :	39.120	3.132	3.862	5.192	27.895	0.5905	0.4710
VOL. WGT. MEAN :	27.775	2.835	2.651	4.630	19.476	0.4515	0.3129

\*\*\*\*\* : INSUFFICIENT DATA

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : DALHOUSIE MILLS/CUMULATIVE PRECIP. #16

PERIOD OF REPORT : JAN 2, 85 TO DEC 31,85

PAGE : 2

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	12	12	12	12	12	11	12
MAXIMUM :	0.1183	0.871	9.3520	1.0495	0.054	7.994	0.4553
MINIMUM :	0.0035	0.157	0.5858	0.1315	0.007	1.163	0.0113
RANGE :	0.1148	0.714	8.7662	0.9180	0.047	6.831	0.4440
ARITH. MEAN :	0.0405	0.390	2.7756	0.4620	0.019	3.483	0.1126
ARITH. STD. DEV. :	0.0320	0.215	2.6167	0.3033	0.013	2.241	0.1247
GEOM. MEAN :	0.0280	0.339	1.9936	0.3761	0.016	2.887	0.0666
GEOM. STD. DEV. :	2.7674	1.746	2.2689	1.9796	1.766	1.907	3.0806
1ST QUARTILE :	0.0139	0.199	1.0673	0.2367	0.013	1.543	0.0364
2ND QUARTILE :	0.0381	0.393	1.7533	0.3792	0.016	2.570	0.0638
3RD QUARTILE :	0.0580	0.513	3.7017	0.6573	0.018	5.086	0.1546
VOL. WGT. MEAN :	0.0384	0.369	2.6288	0.4376	0.018	3.168	0.1066

CADMIUM

MG/M\*\*2

# OF SAMPLES :	12
MAXIMUM :	0.02023
MINIMUM :	0.00035
RANGE :	0.01988
ARITH. MEAN :	0.00894
ARITH. STD. DEV. :	0.00596
GEOM. MEAN :	0.00593
GEOM. STD. DEV. :	3.36126
1ST QUARTILE :	0.00518
2ND QUARTILE :	0.00855
3RD QUARTILE :	0.01311
VOL. WGT. MEAN :	0.00847

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : DORION/CUMULATIVE PRECIP.

#31

PERIOD OF REPORT : JAN 2, 85 TO DEC 31,85

PAGE : 1

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	13	13	0	13	13	13	13
MAXIMUM :	187.0	2.7659	*****	199.87	36.890	39.270	7.398
MINIMUM :	14.1	0.0221	*****	9.87	4.158	0.846	0.000
RANGE :	172.9	2.7439	*****	190.00	32.732	38.424	7.398
ARITH. MEAN :	69.4	1.1091	*****	91.97	15.758	14.259	2.847
ARITH. STD. DEV :	50.6	0.8654	*****	69.81	10.066	13.004	2.005
GEOM. MEAN :	51.9	0.6676	*****	60.22	12.661	8.769	2.557
GEOM. STD. DEV. :	2.3	3.8387	*****	3.01	2.073	3.124	1.582
1ST QUARTILE :	20.9	0.3685	*****	18.29	6.644	4.471	1.614
2ND QUARTILE :	60.0	0.9404	*****	81.13	14.716	7.525	2.593
3RD QUARTILE :	91.8	1.5003	*****	126.89	19.440	19.971	3.479
VOL. WGT. MEAN :	*****	1.0298	*****	85.40	14.632	13.240	2.643

	KJELDAHL AS N MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANSE MG/M**2
# OF SAMPLES :	13	13	13	13	13	13	13
MAXIMUM :	73.780	6.545	6.545	8.631	54.145	1.1900	0.8330
MINIMUM :	1.974	0.106	0.000	0.769	0.493	0.1092	0.0141
RANGE :	71.806	6.439	6.545	7.862	53.651	1.0808	0.8189
ARITH. MEAN :	23.175	2.035	1.455	2.798	17.523	0.5594	0.2031
ARITH. STD. DEV :	21.141	2.175	1.906	2.054	16.898	0.3474	0.2510
GEOM. MEAN :	14.287	1.034	0.832	2.292	8.437	0.4485	0.1070
GEOM. STD. DEV. :	3.164	3.913	3.964	1.916	4.744	2.1084	3.3019
1ST QUARTILE :	5.632	0.388	0.119	1.805	3.473	0.2711	0.0434
2ND QUARTILE :	15.991	1.024	0.426	2.100	10.712	0.4317	0.0831
3RD QUARTILE :	28.913	2.344	2.127	2.777	24.995	0.7910	0.1895
VOL. WGT. MEAN :	21.520	1.890	1.351	2.598	16.271	0.5195	0.1886

\*\*\*\*\* : INSUFFICIENT DATA

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.



ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : DORION/CUMULATIVE PRECIP.

#31

PERIOD OF REPORT : JAN 2, 85 TO DEC 31,85

PAGE : 2

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	13	13	13	13	13	13	13
MAXIMUM :	0.0410	0.631	8.1682	0.4157	0.037	9.140	0.5043
MINIMUM :	0.0019	0.035	0.2665	0.0280	0.003	0.429	0.0113
RANGE :	0.0391	0.596	7.9017	0.3877	0.035	8.711	0.4930
ARITH. MEAN :	0.0145	0.275	2.4535	0.2325	0.014	2.529	0.0972
ARITH. STD. DEV :	0.0132	0.196	2.3567	0.1243	0.010	2.406	0.1406
GEOM. MEAN :	0.0096	0.211	1.6044	0.1914	0.010	1.851	0.0436
GEOM. STD. DEV. :	2.6697	2.245	2.7039	2.1083	2.333	2.210	3.6150
1ST QUARTILE :	0.0048	0.142	0.7179	0.1381	0.004	1.142	0.0133
2ND QUARTILE :	0.0067	0.182	1.6576	0.1909	0.012	1.520	0.0231
3RD QUARTILE :	0.0212	0.345	2.8564	0.3314	0.018	2.204	0.1040
VOL. WGT. MEAN :	0.0135	0.264	2.2782	0.2159	0.013	2.349	0.0903

CADMIUM

MG/M\*\*2

# OF SAMPLES :	13
MAXIMUM :	0.01747
MINIMUM :	0.00023
RANGE :	0.01724
ARITH. MEAN :	0.00382
ARITH. STD. DEV :	0.00463
GEOM. MEAN :	0.00201
GEOM. STD. DEV. :	3.53399
1ST QUARTILE :	0.00059
2ND QUARTILE :	0.00266
3RD QUARTILE :	0.00443
VOL. WGT. MEAN :	0.00355

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : DORSET/CUMULATIVE PRECIP.

#20

PERIOD OF REPORT : JAN 2, 85 TO DEC 31,85

PAGE : 1

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	13	11	0	12	12	11	12
MAXIMUM :	136.0	8.0083	*****	476.00	64.680	41.910	17.780
MINIMUM :	42.0	1.2004	*****	36.00	25.760	0.970	5.400
RANGE :	94.0	6.8079	*****	440.00	38.920	40.940	12.380
ARITH. MEAN :	82.3	3.8015	*****	200.25	40.168	20.199	10.966
ARITH. STD. DEV :	30.7	1.8839	*****	114.57	14.678	13.787	4.528
GEOM. MEAN :	77.0	3.3883	*****	168.56	37.916	13.365	10.122
GEOM. STD. DEV. :	1.5	1.6810	*****	1.95	1.418	3.253	1.523
1ST QUARTILE :	57.5	2.1297	*****	141.47	27.720	4.625	7.860
2ND QUARTILE :	74.5	3.4603	*****	184.00	33.850	19.120	8.470
3RD QUARTILE :	94.5	4.4487	*****	247.95	57.135	30.885	15.435
VOL. WGT. MEAN :	*****	3.7740	*****	207.33	41.587	20.053	11.353

	KJELDAHL AS N MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANESE MG/M**2
# OF SAMPLES :	11	11	12	12	12	11	11
MAXIMUM :	59.850	4.875	5.200	11.430	43.180	1.0080	1.3860
MINIMUM :	6.300	0.000	0.000	0.880	4.050	0.0000	0.0225
RANGE :	53.550	4.875	5.200	10.550	39.130	1.0080	1.3635
ARITH. MEAN :	29.450	2.805	1.539	3.506	24.183	0.3106	0.3008
ARITH. STD. DEV :	17.276	1.954	1.816	2.905	12.646	0.3082	0.3953
GEOM. MEAN :	24.275	2.026	0.939	2.746	20.198	0.2633	0.1533
GEOM. STD. DEV. :	2.008	2.823	3.488	2.032	2.018	2.5755	3.4759
1ST QUARTILE :	13.610	0.350	0.177	1.597	13.155	0.0635	0.0472
2ND QUARTILE :	24.240	3.310	0.440	2.997	24.675	0.1897	0.1220
3RD QUARTILE :	41.585	4.322	3.005	3.780	35.500	0.4300	0.3585
VOL. WGT. MEAN :	29.236	2.785	1.593	3.630	25.037	0.3084	0.2986

\*\*\*\*\* : INSUFFICIENT DATA

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY  
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STATION NAME : DORSET/CUMULATIVE PRECIP.

#20

PERIOD OF REPORT : JAN 2, 85 TO DEC 31,85

PAGE : 2

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	11	10	11	11	11	11	12
MAXIMUM :	0.0693	0.611	11.7432	1.4199	0.051	10.918	0.1492
MINIMUM :	0.0054	0.094	0.4090	0.1684	0.009	0.797	0.0094
RANGE :	0.0639	0.517	11.3342	1.2515	0.042	10.121	0.1398
ARITH. MEAN :	0.0324	0.317	3.7238	0.4568	0.022	3.900	0.0588
ARITH. STD. DEV :	0.0178	0.179	3.5348	0.3813	0.013	3.365	0.0437
GEOM. MEAN :	0.0268	0.268	2.3627	0.3619	0.019	2.727	0.0446
GEOM. STD. DEV. :	2.0657	1.913	2.8772	1.9526	1.713	2.475	2.2638
1ST QUARTILE :	0.0131	0.136	0.8721	0.1998	0.011	1.127	0.0291
2ND QUARTILE :	0.0331	0.286	2.1314	0.2954	0.018	2.174	0.0418
3RD QUARTILE :	0.0407	0.425	5.2385	0.4772	0.029	5.794	0.0835
VOL. WGT. MEAN :	0.0321	0.308	3.6968	0.4535	0.022	3.872	0.0609

CADMIUM

MG/M\*\*2

# OF SAMPLES :	11
MAXIMUM :	0.01071
MINIMUM :	0.00088
RANGE :	0.00983
ARITH. MEAN :	0.00456
ARITH. STD. DEV :	0.00364
GEOM. MEAN :	0.00320
GEOM. STD. DEV. :	2.54509
1ST QUARTILE :	0.00113
2ND QUARTILE :	0.00252
3RD QUARTILE :	0.00769
VOL. WGT. MEAN :	0.00453

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : EAR FALL'S/CUMULATIVE PRECIP. #35

PERIOD OF REPORT : JAN 2, 85 TO DEC 31,85

PAGE : 1

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	13	13	0	12	12	12	12
MAXIMUM :	100.0	1.2109	*****	80.00	16.000	36.024	18.870
MINIMUM :	9.1	0.0511	*****	6.82	2.457	1.206	0.000
RANGE :	90.9	1.1598	*****	73.17	13.543	34.818	18.870
ARITH. MEAN :	53.0	0.3545	*****	39.88	8.621	10.821	4.406
ARITH. STD. DEV :	33.4	0.3189	*****	23.41	4.788	10.021	4.851
GEOM. MEAN :	41.7	0.2490	*****	32.30	7.262	7.012	3.309
GEOM. STD. DEV. :	2.2	2.4641	*****	2.10	1.912	2.852	1.917
1ST QUARTILE :	22.1	0.1426	*****	19.14	4.575	3.292	2.038
2ND QUARTILE :	40.8	0.1978	*****	43.17	7.135	8.467	3.314
3RD QUARTILE :	79.4	0.4603	*****	53.63	12.810	16.400	4.609
VOL. WGT. MEAN :	*****	0.3545	*****	41.57	8.987	10.241	4.593

	KJELDAHL AS N MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANESE MG/M**2
# OF SAMPLES :	12	12	12	12	13	12	11
MAXIMUM :	28.440	7.110	3.600	5.600	18.012	0.9480	0.6636
MINIMUM :	1.456	0.068	0.000	0.750	0.000	0.0574	0.0311
RANGE :	26.984	7.042	3.600	4.850	18.012	0.8906	0.6325
ARITH. MEAN :	11.685	1.504	1.484	2.569	7.227	0.3501	0.1828
ARITH. STD. DEV :	8.998	2.043	1.377	1.222	6.194	0.2493	0.1866
GEOM. MEAN :	7.863	0.673	0.874	2.320	3.732	0.2764	0.1201
GEOM. STD. DEV. :	2.836	4.010	3.901	1.627	4.520	2.1181	2.6319
1ST QUARTILE :	3.026	0.277	0.128	1.934	0.918	0.1986	0.0398
2ND QUARTILE :	10.250	0.561	1.188	2.228	5.542	0.2379	0.1005
3RD QUARTILE :	17.500	2.187	2.787	3.179	10.807	0.4768	0.2625
VOL. WGT. MEAN :	11.059	1.423	1.404	2.432	7.227	0.3313	0.1608

\*\*\*\*\* : INSUFFICIENT DATA

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : EAR FALL'S/CUMULATIVE PRECIP. #35

PERIOD OF REPORT : JAN 2, 85 TO DEC 31,85

PAGE : 2

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	11	11	11	11	11	11	11
MAXIMUM :	0.0603	0.430	9.5369	0.5278	0.020	7.714	0.1175
MINIMUM :	0.0029	0.087	0.9420	0.0407	0.004	0.837	0.0131
RANGE :	0.0574	0.344	8.5949	0.4871	0.016	6.877	0.1045
ARITH. MEAN :	0.0136	0.207	2.6803	0.2353	0.012	2.368	0.0414
ARITH. STD. DEV :	0.0161	0.123	2.3559	0.1681	0.006	1.876	0.0300
GEOM. MEAN :	0.0097	0.176	2.1944	0.1681	0.010	1.973	0.0340
GEOM. STD. DEV. :	2.1515	1.805	1.8012	2.6072	1.830	1.792	1.8993
1ST QUARTILE :	0.0061	0.095	1.5229	0.0454	0.005	1.217	0.0194
2ND QUARTILE :	0.0087	0.154	1.8805	0.2115	0.011	1.832	0.0292
3RD QUARTILE :	0.0098	0.324	2.6800	0.3371	0.017	2.522	0.0488
VOL. WGT. MEAN :	0.0120	0.182	2.3572	0.2070	0.011	2.083	0.0364

CADMIUM

MG/M\*\*2

# OF SAMPLES :	11
MAXIMUM :	0.18180
MINIMUM :	0.00095
RANGE :	0.18085
ARITH. MEAN :	0.01833
ARITH. STD. DEV :	0.05422
GEOM. MEAN :	0.00279
GEOM. STD. DEV. :	4.20946
1ST QUARTILE :	0.00130
2ND QUARTILE :	0.00179
3RD QUARTILE :	0.00262
VOL. WGT. MEAN :	0.01612

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : EXP. LAKES AREA/CUMULATIVE PRECIP. #34

PERIOD OF REPORT : JAN 2, 85 TO DEC 31,85

PAGE : 1

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	13	13	0	13	13	12	13
MAXIMUM :	160.0	0.5940	*****	200.00	32.000	59.200	9.432
MINIMUM :	5.6	0.0687	*****	12.53	3.002	1.253	0.000
RANGE :	154.4	0.5253	*****	187.47	28.998	57.947	9.432
ARITH. MEAN :	68.6	0.3137	*****	66.07	13.942	17.708	3.748
ARITH. STD. DEV :	51.4	0.1849	*****	57.84	8.515	17.468	2.550
GEOM. MEAN :	46.1	0.2531	*****	45.21	11.316	10.144	3.190
GEOM. STD. DEV. :	2.9	2.0989	*****	2.56	2.057	3.463	1.713
1ST QUARTILE :	17.8	0.1206	*****	18.02	6.824	4.063	2.119
2ND QUARTILE :	61.3	0.2848	*****	49.82	11.230	14.828	2.632
3RD QUARTILE :	99.9	0.4274	*****	78.67	19.010	23.362	4.300
VOL. WGT. MEAN :	*****	0.3137	*****	66.07	13.942	16.449	3.748

	KJELDAHL AS N MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANSE MG/M**2
# OF SAMPLES :	13	12	12	12	13	13	11
MAXIMUM :	76.800	9.600	7.200	9.432	50.304	2.0800	1.2800
MINIMUM :	2.464	0.134	0.079	0.712	0.869	0.1975	0.0158
RANGE :	74.336	9.466	7.121	8.719	49.435	1.8825	1.2642
ARITH. MEAN :	25.638	2.358	1.944	3.706	18.758	0.7329	0.3695
ARITH. STD. DEV :	24.046	3.022	2.063	2.715	18.620	0.5979	0.4508
GEOM. MEAN :	14.743	1.059	0.985	2.795	8.954	0.5500	0.1775
GEOM. STD. DEV. :	3.361	4.091	4.092	2.290	4.501	2.2033	4.0144
1ST QUARTILE :	4.136	0.334	0.309	1.698	2.525	0.2335	0.0404
2ND QUARTILE :	17.765	1.331	1.446	2.994	12.329	0.5696	0.2322
3RD QUARTILE :	35.810	2.692	3.053	5.086	23.529	0.7819	0.3152
VOL. WGT. MEAN :	25.638	2.191	1.806	3.443	18.758	0.7329	0.3210

\*\*\*\*\* : INSUFFICIENT DATA

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : EXP. LAKES AREA/CUMULATIVE PRECIP. #34

PERIOD OF REPORT : JAN 2, 85 TO DEC 31,85

PAGE : 2

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	11	11	11	11	11	11	11
MAXIMUM :	0.0668	0.566	19.9517	1.1203	0.080	19.974	0.1264
MINIMUM :	0.0072	0.108	0.4653	0.0773	0.003	0.557	0.0140
RANGE :	0.0597	0.457	19.4864	1.0430	0.077	19.417	0.1123
ARITH. MEAN :	0.0246	0.294	4.7056	0.2947	0.022	4.916	0.0514
ARITH. STD. DEV. :	0.0174	0.151	5.8573	0.2922	0.023	5.777	0.0395
GEOM. MEAN :	0.0198	0.258	2.6722	0.2186	0.014	2.939	0.0396
GEOM. STD. DEV. :	2.0134	1.741	2.9846	2.1457	2.814	2.857	2.1397
1ST QUARTILE :	0.0083	0.136	1.1424	0.1055	0.004	1.255	0.0189
2ND QUARTILE :	0.0196	0.259	1.8302	0.2328	0.016	2.346	0.0335
3RD QUARTILE :	0.0296	0.384	4.9050	0.2969	0.024	6.094	0.0728
VOL. WGT. MEAN :	0.0213	0.255	4.0881	0.2561	0.019	4.271	0.0447

108

CADMIUM

	MG/M**2
# OF SAMPLES :	11
MAXIMUM :	0.00734
MINIMUM :	0.00072
RANGE :	0.00662
ARITH. MEAN :	0.00348
ARITH. STD. DEV. :	0.00235
GEOM. MEAN :	0.00271
GEOM. STD. DEV. :	2.17848
1ST QUARTILE :	0.00137
2ND QUARTILE :	0.00213
3RD QUARTILE :	0.00551
VOL. WGT. MEAN :	0.00302

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

---

STATION NAME : GERALDTON/CUMULATIVE PRECIP.

#30

PERIOD OF REPORT : JAN 2, 85 TO JAN 1,86

PAGE : 1

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	12	12	0	12	12	11	12
MAXIMUM :	157.0	2.0800	*****	219.80	34.540	32.970	11.452
MINIMUM :	15.8	0.1328	*****	8.69	2.054	1.580	1.562
RANGE :	141.2	1.9472	*****	211.11	32.486	31.390	9.890
ARITH. MEAN :	53.9	0.6199	*****	70.31	11.132	11.971	6.255
ARITH. STD. DEV :	39.3	0.5835	*****	64.82	8.676	9.443	3.839
GEOM. MEAN :	43.2	0.4418	*****	48.57	8.809	8.534	5.055
GEOM. STD. DEV. :	2.0	2.3166	*****	2.52	2.055	2.557	2.067
1ST QUARTILE :	22.4	0.2438	*****	26.91	6.205	3.000	2.924
2ND QUARTILE :	45.9	0.4421	*****	47.80	9.355	9.800	5.442
3RD QUARTILE :	71.9	0.7466	*****	88.46	12.639	14.394	10.787
VOL. WGT. MEAN :	*****	0.6199	*****	70.31	11.132	11.266	6.255

	KJELDAHL AS N MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANESE MG/M**2
# OF SAMPLES :	11	11	11	11	12	11	11
MAXIMUM :	106.760	4.710	10.205	8.635	69.865	9.8910	0.4710
MINIMUM :	1.264	0.079	0.039	1.450	0.000	0.0781	0.0158
RANGE :	105.496	4.631	10.165	7.185	69.865	9.8129	0.4552
ARITH. MEAN :	27.014	1.628	2.703	5.333	13.179	1.3929	0.1711
ARITH. STD. DEV :	30.110	1.517	3.175	2.759	19.431	2.8324	0.1700
GEOM. MEAN :	16.027	0.890	1.053	4.540	5.951	0.5776	0.0995
GEOM. STD. DEV. :	3.235	3.816	5.766	1.898	3.794	3.3896	3.2109
1ST QUARTILE :	7.990	0.238	0.164	2.134	3.142	0.2366	0.0328
2ND QUARTILE :	16.542	1.172	1.227	4.660	7.500	0.6019	0.0965
3RD QUARTILE :	28.562	2.175	3.801	7.954	12.533	0.8250	0.2531
VOL. WGT. MEAN :	25.423	1.532	2.543	5.019	13.179	1.3109	0.1610

\*\*\*\*\* : INSUFFICIENT DATA

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.



ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : GERALDTON/CUMULATIVE PRECIP. #30

PERIOD OF REPORT : JAN 2, 85 TO JAN 1,86

PAGE : 2

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	11	11	11	11	11	11	11
MAXIMUM :	0.0573	2.531	8.0572	0.6464	0.031	5.148	0.1708
MINIMUM :	0.0020	0.075	0.2261	0.0676	0.003	0.609	0.0105
RANGE :	0.0552	2.456	7.8311	0.5788	0.028	4.539	0.1603
ARITH. MEAN :	0.0209	0.412	2.6490	0.2417	0.012	2.552	0.0683
ARITH. STD. DEV :	0.0164	0.717	2.2315	0.1696	0.008	1.489	0.0548
GEOM. MEAN :	0.0141	0.215	1.7746	0.1942	0.010	2.114	0.0473
GEOM. STD. DEV. :	2.9107	2.695	2.8762	2.0275	1.840	1.984	2.6525
1ST QUARTILE :	0.0041	0.113	0.6472	0.0921	0.006	1.082	0.0147
2ND QUARTILE :	0.0178	0.148	2.5429	0.2025	0.009	1.960	0.0481
3RD QUARTILE :	0.0297	0.255	3.2771	0.2999	0.014	3.550	0.1038
VOL. WGT. MEAN :	0.0197	0.388	2.4929	0.2274	0.011	2.402	0.0642

CADMIUM

MG/M\*\*2

# OF SAMPLES :	11
MAXIMUM :	0.05534
MINIMUM :	0.00032
RANGE :	0.05503
ARITH. MEAN :	0.00960
ARITH. STD. DEV :	0.01576
GEOM. MEAN :	0.00392
GEOM. STD. DEV. :	4.28645
1ST QUARTILE :	0.00095
2ND QUARTILE :	0.00429
3RD QUARTILE :	0.00896
VOL. WGT. MEAN :	0.00904

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GOLDEN LAKE/CUMULATIVE PRECIP. #17

PERIOD OF REPORT : JAN 2, 85 TO DEC 31,85

PAGE : 1

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	13	12	0	12	12	11	12
MAXIMUM :	87.0	4.6185	*****	308.85	51.330	45.240	12.180
MINIMUM :	26.0	1.3576	*****	44.95	11.500	5.060	0.840
RANGE :	61.0	3.2609	*****	263.90	39.830	40.180	11.340
ARITH. MEAN :	55.6	2.5170	*****	137.25	25.362	14.772	4.821
ARITH. STD. DEV :	21.1	1.0270	*****	74.66	10.717	11.177	3.654
GEOM. MEAN :	51.9	2.3380	*****	120.93	23.469	12.323	3.592
GEOM. STD. DEV. :	1.5	1.4918	*****	1.70	1.510	1.804	2.322
1ST QUARTILE :	39.0	1.6340	*****	84.80	17.760	7.775	2.074
2ND QUARTILE :	50.0	2.3327	*****	120.64	25.665	10.941	3.990
3RD QUARTILE :	69.1	3.1748	*****	153.45	29.381	15.950	7.425
VOL. WGT. MEAN :	*****	2.4522	*****	133.72	24.709	14.321	4.697

	KJELDAHL AS N MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANSE MG/M**2
# OF SAMPLES :	12	11	10	11	12	12	12
MAXIMUM :	69.600	5.220	2.700	5.220	55.680	0.8700	0.5220
MINIMUM :	7.750	0.230	0.000	0.300	3.240	0.0230	0.0200
RANGE :	61.850	4.990	2.700	4.920	52.440	0.8470	0.5020
ARITH. MEAN :	20.690	2.064	1.353	1.966	15.858	0.2573	0.1574
ARITH. STD. DEV :	17.047	1.338	1.035	1.473	14.369	0.2474	0.1432
GEOM. MEAN :	16.746	1.629	1.371	1.489	11.890	0.1636	0.1059
GEOM. STD. DEV. :	1.881	2.269	1.666	2.313	2.168	2.8811	2.6607
1ST QUARTILE :	10.390	0.975	0.300	0.730	7.420	0.0891	0.0500
2ND QUARTILE :	14.718	1.760	1.145	1.515	12.112	0.1475	0.1230
3RD QUARTILE :	23.975	2.475	2.237	2.259	17.975	0.3620	0.2240
VOL. WGT. MEAN :	20.157	2.001	1.244	1.906	15.450	0.2507	0.1533

\*\*\*\*\* : INSUFFICIENT DATA

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

NOTE(2): THE VOLUME-WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : GOLDEN LAKE/CUMULATIVE PRECIP. #17

PERIOD OF REPORT : JAN 2, 85 TO DEC 31,85

PAGE : 2

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	12	12	12	12	12	12	12
MAXIMUM :	0.0364	0.407	7.7038	0.9152	0.017	6.421	0.3187
MINIMUM :	0.0042	0.062	0.4886	0.0319	0.005	0.670	0.0086
RANGE :	0.0322	0.346	7.2153	0.8833	0.012	5.751	0.3101
ARITH. MEAN :	0.0196	0.207	2.3441	0.2784	0.011	2.367	0.0740
ARITH. STD. DEV :	0.0132	0.111	1.9521	0.2524	0.004	1.605	0.0854
GEOM. MEAN :	0.0150	0.178	1.7713	0.1839	0.011	1.964	0.0454
GEOM. STD. DEV. :	2.2580	1.821	2.2154	2.7890	1.493	1.887	2.8603
1ST QUARTILE :	0.0069	0.107	0.9992	0.1008	0.008	1.390	0.0246
2ND QUARTILE :	0.0146	0.199	2.0909	0.2146	0.011	1.717	0.0465
3RD QUARTILE :	0.0334	0.265	2.9635	0.4063	0.016	3.064	0.0890
VOL. WGT. MEAN :	0.0191	0.201	2.2837	0.2712	0.011	2.306	0.0721

CADMIUM

MG/M\*\*2

# OF SAMPLES :	11
MAXIMUM :	0.02760
MINIMUM :	0.00042
RANGE :	0.02718
ARITH. MEAN :	0.00628
ARITH. STD. DEV :	0.00765
GEOM. MEAN :	0.00361
GEOM. STD. DEV. :	3.19180
1ST QUARTILE :	0.00154
2ND QUARTILE :	0.00310
3RD QUARTILE :	0.00709
VOL. WGT. MEAN :	0.00610

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GOWGANDA/CUMULATIVE PRECIP.

#25

PERIOD OF REPORT : JAN 2, 85 TO DEC 31,85

PAGE : 1

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	13	13	0	13	13	13	13
MAXIMUM :	86.0	3.5975	*****	208.00	26.660	20.800	55.500
MINIMUM :	18.4	0.6015	*****	22.08	1.480	1.060	1.025
RANGE :	67.6	2.9960	*****	185.92	25.180	19.739	54.475
ARITH. MEAN :	53.5	1.9803	*****	99.94	13.294	5.898	7.715
ARITH. STD. DEV :	22.2	1.1022	*****	62.18	7.442	5.786	14.507
GEOM. MEAN :	48.3	1.6685	*****	81.32	10.822	3.917	3.946
GEOM. STD. DEV. :	1.7	1.8986	*****	2.02	2.157	2.572	2.691
1ST QUARTILE :	38.0	0.8646	*****	50.55	8.412	1.769	2.052
2ND QUARTILE :	49.5	1.6826	*****	73.32	11.084	3.219	3.044
3RD QUARTILE :	68.3	2.6500	*****	131.38	18.260	7.000	5.586
VOL. WGT. MEAN :	*****	1.9803	*****	99.94	13.294	5.898	7.715

	KJELDAHL AS N MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANESE MG/M**2
# OF SAMPLES :	12	13	13	13	13	12	12
MAXIMUM :	44.400	2.860	13.320	53.650	21.930	3.4780	0.4680
MINIMUM :	2.944	0.000	0.000	0.160	0.000	0.0410	0.0205
RANGE :	41.456	2.860	13.320	53.490	21.930	3.4370	0.4475
ARITH. MEAN :	16.392	0.960	2.562	5.411	7.509	0.7781	0.1190
ARITH. STD. DEV :	11.739	0.958	3.516	14.579	6.544	1.0542	0.1279
GEOM. MEAN :	12.806	0.627	1.488	1.053	3.722	0.3603	0.0771
GEOM. STD. DEV. :	2.161	3.153	3.123	4.991	5.428	3.9360	2.5970
1ST QUARTILE :	8.550	0.170	0.585	0.319	1.610	0.1570	0.0342
2ND QUARTILE :	12.625	0.445	1.447	0.589	6.294	0.4404	0.0761
3RD QUARTILE :	22.996	1.565	2.167	2.292	8.967	0.6620	0.1670
VOL. WGT. MEAN :	15.556	0.960	2.562	5.411	7.509	0.7384	0.1129

\*\*\*\*\* : INSUFFICIENT DATA

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : GOWGANDA/CUMULATIVE PRECIP. #25

PERIOD OF REPORT : JAN 2, 85 TO DEC 31,85

PAGE : 2

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	12	12	12	12	12	12	12
MAXIMUM :	0.2340	0.781	3.2849	0.6838	0.041	3.621	0.2407
MINIMUM :	0.0035	0.095	0.4089	0.0629	0.004	0.601	0.0126
RANGE :	0.2305	0.687	2.8760	0.6209	0.037	3.020	0.2281
ARITH. MEAN :	0.0377	0.228	1.2631	0.2684	0.015	1.672	0.0656
ARITH. STD. DEV :	0.0638	0.216	0.9451	0.1659	0.011	0.833	0.0649
GEOM. MEAN :	0.0182	0.172	1.0174	0.2227	0.013	1.503	0.0433
GEOM. STD. DEV. :	3.1827	2.022	1.9343	1.9607	1.932	1.624	2.6349
1ST QUARTILE :	0.0083	0.098	0.6405	0.1467	0.008	1.203	0.0166
2ND QUARTILE :	0.0200	0.131	0.9062	0.2793	0.013	1.464	0.0543
3RD QUARTILE :	0.0298	0.235	1.7048	0.3251	0.019	2.120	0.0918
VOL. WGT. MEAN :	0.0357	0.216	1.1987	0.2547	0.015	1.587	0.0622

CADMIUM

MG/M\*\*2

# OF SAMPLES :	12
MAXIMUM :	0.03922
MINIMUM :	0.00035
RANGE :	0.03887
ARITH. MEAN :	0.00641
ARITH. STD. DEV :	0.01067
GEOM. MEAN :	0.00282
GEOM. STD. DEV. :	3.82188
1ST QUARTILE :	0.00124
2ND QUARTILE :	0.00322
3RD QUARTILE :	0.00639
VOL. WGT. MEAN :	0.00608

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : HURON PARK/CUMULATIVE PRECIP. #06

PERIOD OF REPORT : JAN 2, 85 TO DEC 31,85

PAGE : 1

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	10	10	0	10	10	10	10
MAXIMUM :	135.0	11.2288	*****	573.75	94.500	66.560	28.350
MINIMUM :	20.4	0.2644	*****	42.50	14.250	7.250	3.780
RANGE :	114.6	10.9645	*****	531.25	80.250	59.310	24.570
ARITH. MEAN :	53.4	2.9010	*****	213.82	38.032	29.529	11.122
ARITH. STD. DEV :	40.2	3.2428	*****	148.18	24.926	16.948	8.202
GEOM. MEAN :	42.3	1.7412	*****	173.49	31.805	25.267	9.048
GEOM. STD. DEV. :	2.0	3.0382	*****	2.03	1.873	1.851	1.928
1ST QUARTILE :	21.5	0.6913	*****	103.72	16.415	17.780	4.750
2ND QUARTILE :	36.5	2.0219	*****	185.65	36.095	23.379	8.835
3RD QUARTILE :	67.5	3.1300	*****	257.05	42.395	36.820	10.260
VOL. WGT. MEAN :	*****	2.9010	*****	213.82	38.032	29.529	11.122

	KJELDAHL AS N MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANSE MG/M**2
# OF SAMPLES :	10	10	10	10	10	10	10
MAXIMUM :	72.900	10.080	3.280	6.760	64.800	4.2330	1.0800
MINIMUM :	10.000	1.000	0.204	1.020	7.750	0.0615	0.0500
RANGE :	62.900	9.080	3.076	5.740	57.050	4.1715	1.0300
ARITH. MEAN :	38.239	4.800	1.730	3.097	31.943	0.8635	0.3670
ARITH. STD. DEV :	20.524	2.530	1.066	1.870	18.814	1.2523	0.3707
GEOM. MEAN :	32.663	4.129	1.337	2.606	26.945	0.4057	0.2371
GEOM. STD. DEV. :	1.883	1.881	2.380	1.886	1.907	3.7361	2.7026
1ST QUARTILE :	20.002	3.067	0.699	1.290	17.140	0.1104	0.1065
2ND QUARTILE :	35.970	4.205	1.495	2.780	28.720	0.4180	0.2420
3RD QUARTILE :	48.240	5.980	2.630	3.907	34.305	0.8920	0.3625
VOL. WGT. MEAN :	38.239	4.800	1.730	3.097	31.943	0.8635	0.3670

\*\*\*\*\* : INSUFFICIENT DATA

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : HURON PARK/CUMULATIVE PRECIP.

#06

PERIOD OF REPORT : JAN 2, 85 TO DEC 31,85

PAGE : 2

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	10	10	8	10	10	7	10
MAXIMUM :	0.3510	2.731	6.3546	1.3662	0.189	4.990	0.2920
MINIMUM :	0.0075	0.168	1.2872	0.1476	0.004	1.334	0.0133
RANGE :	0.3435	2.563	5.0674	1.2186	0.185	3.655	0.2787
ARITH. MEAN :	0.0623	0.801	3.0480	0.4631	0.044	2.787	0.0834
ARITH. STD. DEV :	0.1061	0.870	1.8810	0.3707	0.062	1.379	0.0835
GEOM. MEAN :	0.0264	0.506	2.6015	0.3615	0.021	2.512	0.0566
GEOM. STD. DEV. :	3.5436	2.632	1.8146	2.0788	3.478	1.637	2.5277
1ST QUARTILE :	0.0083	0.231	1.5143	0.1603	0.007	1.440	0.0249
2ND QUARTILE :	0.0207	0.395	2.5252	0.4106	0.015	2.219	0.0502
3RD QUARTILE :	0.0436	0.868	4.3314	0.4984	0.034	3.602	0.1015
VOL. WGT. MEAN :	0.0623	0.801	4.1184	0.4631	0.044	3.530	0.0834

CADMIUM

MG/M\*\*2

# OF SAMPLES :	10
MAXIMUM :	0.01890
MINIMUM :	0.00122
RANGE :	0.01768
ARITH. MEAN :	0.00648
ARITH. STD. DEV :	0.00623
GEOM. MEAN :	0.00409
GEOM. STD. DEV. :	2.80975
1ST QUARTILE :	0.00148
2ND QUARTILE :	0.00332
3RD QUARTILE :	0.00948
VOL. WGT. MEAN :	0.00648

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : KILLARNEY/CUMULATIVE PRECIP.

#23

PERIOD OF REPORT : JAN 2, 85 TO DEC 30,85

PAGE : 1

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	11	11	0	11	11	11	11
MAXIMUM :	110.0	7.6101	*****	371.35	67.904	31.830	18.810
MINIMUM :	15.0	0.5322	*****	36.75	8.550	1.485	1.600
RANGE :	95.0	7.0779	*****	334.60	59.354	30.345	17.210
ARITH. MEAN :	64.2	3.5930	*****	187.81	36.031	13.200	9.222
ARITH. STD. DEV :	36.7	2.3255	*****	121.55	20.986	10.826	5.652
GEOM. MEAN :	52.5	2.7037	*****	142.96	29.325	8.912	7.224
GEOM. STD. DEV. :	2.1	2.4326	*****	2.35	2.070	2.726	2.260
1ST QUARTILE :	24.1	1.0615	*****	52.15	13.730	3.611	2.700
2ND QUARTILE :	55.5	3.7438	*****	197.77	32.645	6.900	8.293
3RD QUARTILE :	98.0	5.0336	*****	244.12	53.395	22.785	12.840
VOL. WGT. MEAN :	*****	3.5930	*****	187.81	36.031	13.200	9.222

	KJELDAHL AS N MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANESE MG/M**2
# OF SAMPLES :	11	11	11	11	11	11	11
MAXIMUM :	61.110	5.305	3.600	6.366	51.989	1.1640	0.4800
MINIMUM :	5.600	0.175	0.350	1.275	2.975	0.0702	0.0281
RANGE :	55.510	5.130	3.250	5.091	49.014	1.0937	0.4519
ARITH. MEAN :	28.904	2.474	2.023	3.516	22.094	0.4250	0.1944
ARITH. STD. DEV :	19.755	1.671	1.054	1.927	15.941	0.3671	0.1288
GEOM. MEAN :	22.069	1.769	1.700	2.995	15.676	0.2898	0.1540
GEOM. STD. DEV. :	2.301	2.771	1.998	1.856	2.649	2.6115	2.1867
1ST QUARTILE :	9.541	0.722	0.977	1.475	5.856	0.1000	0.0845
2ND QUARTILE :	23.445	2.275	1.840	3.146	18.967	0.2737	0.1600
3RD QUARTILE :	41.250	3.607	2.701	5.147	34.785	0.6500	0.2555
VOL. WGT. MEAN :	28.904	2.474	2.023	3.516	22.094	0.4250	0.1944

\*\*\*\*\* : INSUFFICIENT DATA

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.



ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : KILLARNEY/CUMULATIVE PRECIP. #23

PERIOD OF REPORT : JAN 2, 85 TO DEC 30,85

PAGE : 2

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	11	11	11	11	11	11	11
MAXIMUM :	0.0945	1.606	5.4140	1.1533	0.034	4.960	0.5351
MINIMUM :	0.0080	0.091	0.9653	0.1319	0.006	0.772	0.0181
RANGE :	0.0865	1.516	4.4487	1.0214	0.028	4.188	0.5170
ARITH. MEAN :	0.0299	0.529	2.6491	0.4986	0.017	2.630	0.1157
ARITH. STD. DEV. :	0.0251	0.431	1.3347	0.3979	0.008	1.507	0.1473
GEOM. MEAN :	0.0230	0.397	2.3729	0.3698	0.015	2.196	0.0701
GEOM. STD. DEV. :	2.1090	2.267	1.6381	2.2619	1.766	1.942	2.7325
1ST QUARTILE :	0.0108	0.186	1.6590	0.1608	0.007	1.085	0.0274
2ND QUARTILE :	0.0236	0.385	2.1885	0.2726	0.019	1.906	0.0667
3RD QUARTILE :	0.0344	0.685	3.1656	0.7488	0.021	3.818	0.1161
VOL. WGT. MEAN :	0.0299	0.529	2.6491	0.4986	0.017	2.630	0.1157

CADMIUM

MG/M\*\*2

# OF SAMPLES :	11
MAXIMUM :	0.01848
MINIMUM :	0.00160
RANGE :	0.01688
ARITH. MEAN :	0.00849
ARITH. STD. DEV. :	0.00547
GEOM. MEAN :	0.00684
GEOM. STD. DEV. :	2.08866
1ST QUARTILE :	0.00365
2ND QUARTILE :	0.00722
3RD QUARTILE :	0.00995
VOL. WGT. MEAN :	0.00849

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : LAC LA CROIX/CUMULATIVE PRECIP. #33

PERIOD OF REPORT : JAN 2, 85 TO DEC 31,85

PAGE : 1

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	11	11	0	10	10	10	10
MAXIMUM :	144.8	1.2976	*****	188.24	37.648	64.664	24.514
MINIMUM :	12.0	0.0581	*****	9.60	3.720	1.800	0.000
RANGE :	132.8	1.2396	*****	178.64	33.928	62.864	24.514
ARITH. MEAN :	58.9	0.4742	*****	72.14	15.257	19.773	7.152
ARITH. STD. DEV :	42.5	0.3925	*****	64.26	11.128	22.082	8.414
GEOM. MEAN :	45.7	0.3353	*****	50.77	12.330	11.505	3.908
GEOM. STD. DEV. :	2.2	2.5650	*****	2.49	1.981	3.062	3.189
1ST QUARTILE :	22.4	0.1750	*****	27.96	7.758	5.235	0.924
2ND QUARTILE :	38.3	0.2827	*****	44.26	11.262	9.847	4.059
3RD QUARTILE :	83.4	0.5689	*****	77.38	14.982	19.800	6.524
VOL. WGT. MEAN :	*****	0.4742	*****	67.78	14.335	18.578	6.720

	KJELDAHL AS N MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANSE MG/M**2
# OF SAMPLES :	9	10	10	10	10	9	9
MAXIMUM :	65.760	11.508	10.136	23.086	39.456	5.7834	1.6440
MINIMUM :	3.960	0.360	0.340	1.134	0.030	0.0340	0.0360
RANGE :	61.800	11.148	9.795	21.952	39.426	5.7493	1.6080
ARITH. MEAN :	25.752	3.429	3.039	6.164	15.050	1.2540	0.4600
ARITH. STD. DEV :	21.631	3.872	3.194	6.985	14.846	1.9183	0.5684
GEOM. MEAN :	18.488	1.998	1.858	3.817	6.043	0.3936	0.2268
GEOM. STD. DEV. :	2.442	3.019	2.914	2.712	8.285	5.6150	3.6394
1ST QUARTILE :	11.151	0.847	0.804	1.496	2.626	0.0860	0.0844
2ND QUARTILE :	14.556	1.821	1.589	3.321	8.945	0.2806	0.1455
3RD QUARTILE :	29.683	3.300	3.679	6.506	21.577	0.9975	0.4210
VOL. WGT. MEAN :	23.010	3.222	2.855	5.791	14.140	1.1204	0.4044

\*\*\*\*\* : INSUFFICIENT DATA

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : LAC LA CROIX/CUMULATIVE PRECIP. #33

PERIOD OF REPORT : JAN 2, 85 TO DEC 31,85

PAGE : 2

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	9	9	9	9	9	9	9
MAXIMUM :	0.1277	0.475	28.5946	0.8741	0.055	27.312	0.1790
MINIMUM :	0.0043	0.068	0.8398	0.0329	0.006	1.264	0.0130
RANGE :	0.1234	0.406	27.7548	0.8412	0.048	26.049	0.1660
ARITH. MEAN :	0.0294	0.251	5.5303	0.3091	0.019	5.952	0.0661
ARITH. STD. DEV. :	0.0399	0.139	8.8719	0.3327	0.015	8.202	0.0584
GEOM. MEAN :	0.0162	0.212	2.7693	0.1565	0.015	3.622	0.0459
GEOM. STD. DEV. :	2.9825	1.942	3.0602	3.7283	1.931	2.569	2.5108
1ST QUARTILE :	0.0063	0.116	1.0315	0.0458	0.009	1.698	0.0212
2ND QUARTILE :	0.0127	0.225	2.2528	0.0873	0.013	2.572	0.0338
3RD QUARTILE :	0.0201	0.323	3.2458	0.4136	0.017	5.321	0.0847
VOL. WGT. MEAN :	0.0258	0.221	4.8611	0.2717	0.016	5.231	0.0581

CADMIUM

MG/M\*\*2

# OF SAMPLES :	9
MAXIMUM :	0.00681
MINIMUM :	0.00061
RANGE :	0.00620
ARITH. MEAN :	0.00238
ARITH. STD. DEV. :	0.00185
GEOM. MEAN :	0.00190
GEOM. STD. DEV. :	2.01040
1ST QUARTILE :	0.00119
2ND QUARTILE :	0.00168
3RD QUARTILE :	0.00261
VOL. WGT. MEAN :	0.00209

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MATTAWA/CUMULATIVE PRECIP.

#22

PERIOD OF REPORT : JAN 2, 85 TO DEC 3, 85

PAGE : 1

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	8	7	0	8	8	8	8
MAXIMUM :	104.8	6.9241	*****	471.60	84.888	50.304	22.008
MINIMUM :	24.0	0.9540	*****	22.80	2.880	2.400	1.450
RANGE :	80.8	5.9701	*****	448.80	82.008	47.904	20.558
ARITH. MEAN :	61.1	3.1988	*****	176.70	28.914	17.871	9.614
ARITH. STD. DEV :	24.0	2.1051	*****	135.06	26.758	15.916	7.256
GEOM. MEAN :	56.7	2.5871	*****	133.17	19.443	11.887	7.111
GEOM. STD. DEV. :	1.5	2.0928	*****	2.43	2.794	2.871	2.448
1ST QUARTILE :	49.6	1.0008	*****	96.40	12.780	6.490	4.084
2ND QUARTILE :	57.0	2.6421	*****	154.04	18.981	15.123	7.440
3RD QUARTILE :	73.6	4.0909	*****	209.16	40.012	23.520	15.202
VOL. WGT. MEAN :	*****	3.1035	*****	176.70	28.914	17.871	9.614

	KJELDAHL AS N MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANSE MG/M**2
# OF SAMPLES :	8	8	8	8	8	8	8
MAXIMUM :	83.840	11.760	11.880	11.368	70.740	4.9500	1.0560
MINIMUM :	4.560	0.060	0.060	0.560	0.000	0.0840	0.0720
RANGE :	79.280	11.700	11.820	10.808	70.740	4.8660	0.9840
ARITH. MEAN :	30.214	3.811	4.183	3.652	22.389	1.0311	0.3688
ARITH. STD. DEV :	29.903	3.863	4.170	4.137	24.143	1.6589	0.3399
GEOM. MEAN :	19.098	1.969	1.888	2.144	11.679	0.4113	0.2521
GEOM. STD. DEV. :	2.851	4.930	5.782	2.942	2.837	4.0288	2.5873
1ST QUARTILE :	8.820	1.474	0.917	1.060	5.450	0.1445	0.1091
2ND QUARTILE :	16.537	2.541	3.374	1.479	12.267	0.2836	0.2440
3RD QUARTILE :	51.300	5.318	6.470	6.104	36.470	1.1794	0.5580
VOL. WGT. MEAN :	30.214	3.811	4.183	3.652	22.389	1.0311	0.3688

\*\*\*\*\* : INSUFFICIENT DATA

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : MATTAWA/CUMULATIVE PRECIP.

#22

PERIOD OF REPORT : JAN 2, 85 TO DEC 3,85

PAGE : 2

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	8	8	8	8	8	8	8
MAXIMUM :	0.1868	1.642	15.2412	1.2230	0.021	10.621	0.4796
MINIMUM :	0.0056	0.133	0.6005	0.0455	0.005	0.817	0.0346
RANGE :	0.1812	1.508	14.6408	1.1775	0.016	9.804	0.4449
ARITH. MEAN :	0.0661	0.648	4.1641	0.4331	0.012	3.411	0.1254
ARITH. STD. DEV. :	0.0565	0.613	4.9395	0.3870	0.005	3.407	0.1490
GEOM. MEAN :	0.0457	0.421	2.5459	0.2813	0.011	2.301	0.0828
GEOM. STD. DEV. :	2.8136	2.713	2.7828	2.9808	1.541	2.557	2.4372
1ST QUARTILE :	0.0336	0.201	1.3067	0.1408	0.010	0.925	0.0415
2ND QUARTILE :	0.0467	0.271	2.4503	0.3700	0.011	2.399	0.0706
3RD QUARTILE :	0.0879	1.234	4.9783	0.5872	0.015	4.602	0.1323
VOL. WGT. MEAN :	0.0661	0.648	4.1641	0.4331	0.012	3.411	0.1254

CADMIUM

MG/M\*\*2

# OF SAMPLES :	8
MAXIMUM :	0.01299
MINIMUM :	0.00096
RANGE :	0.01203
ARITH. MEAN :	0.00558
ARITH. STD. DEV. :	0.00455
GEOM. MEAN :	0.00393
GEOM. STD. DEV. :	2.59036
1ST QUARTILE :	0.00174
2ND QUARTILE :	0.00455
3RD QUARTILE :	0.00906
VOL. WGT. MEAN :	0.00558

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MCKELLAR/CUMULATIVE PRECIP.

#21

PERIOD OF REPORT : JAN 2, 85 TO DEC 31,85

PAGE : 1

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	9	9	0	9	9	9	9
MAXIMUM :	126.9	7.2218	*****	393.39	90.897	54.567	66.510
MINIMUM :	42.0	1.6340	*****	58.40	26.588	0.000	4.400
RANGE :	84.9	5.5878	*****	334.99	64.309	54.567	62.110
ARITH. MEAN :	83.2	4.0514	*****	216.30	47.965	20.003	19.138
ARITH. STD. DEV. :	27.9	1.9585	*****	122.29	20.731	17.727	19.072
GEOM. MEAN :	78.9	3.6156	*****	180.66	44.580	12.241	13.784
GEOM. STD. DEV. :	1.4	1.6832	*****	1.97	1.485	2.380	2.278
1ST QUARTILE :	62.1	2.2162	*****	99.27	32.980	5.486	7.235
2ND QUARTILE :	73.4	3.4858	*****	185.80	41.247	12.132	11.331
3RD QUARTILE :	96.8	4.8740	*****	288.97	47.340	28.062	20.541
VOL. WGT. MEAN :	*****	4.0514	*****	216.30	47.965	20.003	19.138

	KJELDAHL AS N MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANSE MG/M**2
# OF SAMPLES :	9	9	9	9	9	9	9
MAXIMUM :	77.409	6.979	5.912	46.926	67.257	1.8475	0.6345
MINIMUM :	14.600	0.182	0.000	0.518	9.490	0.0000	0.0365
RANGE :	62.809	6.797	5.912	46.408	57.767	1.8475	0.5980
ARITH. MEAN :	38.177	3.358	2.585	11.383	30.432	0.5650	0.2774
ARITH. STD. DEV. :	21.475	2.803	2.049	14.253	18.807	0.5576	0.2415
GEOM. MEAN :	32.904	1.754	1.842	6.198	25.412	0.5011	0.1735
GEOM. STD. DEV. :	1.801	4.318	2.968	3.529	1.923	2.3318	3.0665
1ST QUARTILE :	18.990	0.409	0.451	3.075	14.332	0.1748	0.0529
2ND QUARTILE :	28.657	2.584	2.359	6.405	24.906	0.3744	0.1607
3RD QUARTILE :	50.159	5.427	3.553	9.063	36.011	0.6375	0.4228
VOL. WGT. MEAN :	38.177	3.358	2.585	11.383	30.432	0.5650	0.2774

\*\*\*\*\* : INSUFFICIENT DATA

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : MCKELLAR/CUMULATIVE PRECIP.

#21

PERIOD OF REPORT : JAN 2, 85 TO DEC 31,85

PAGE : 2

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	9	8	8	8	9	8	8
MAXIMUM :	0.0665	1.299	9.3170	1.1775	0.028	8.562	0.4533
MINIMUM :	0.0069	0.309	0.7973	0.0859	0.008	1.080	0.0248
RANGE :	0.0596	0.990	8.5197	1.0916	0.019	7.482	0.4285
ARITH. MEAN :	0.0363	0.595	3.6317	0.5700	0.018	3.575	0.1777
ARITH. STD. DEV :	0.0244	0.324	3.1674	0.3194	0.006	2.866	0.1618
GEOM. MEAN :	0.0267	0.535	2.5870	0.4692	0.017	2.731	0.1180
GEOM. STD. DEV. :	2.5207	1.601	2.4453	2.1618	1.448	2.168	2.7686
1ST QUARTILE :	0.0091	0.381	1.1570	0.4171	0.014	1.462	0.0594
2ND QUARTILE :	0.0328	0.504	2.8952	0.4999	0.017	2.269	0.1249
3RD QUARTILE :	0.0519	0.690	5.4175	0.7313	0.021	5.747	0.2874
VOL. WGT. MEAN :	0.0363	0.571	3.4840	0.5468	0.018	3.429	0.1705

CADMIUM

MG/M\*\*2

# OF SAMPLES :	9
MAXIMUM :	0.02660
MINIMUM :	0.00069
RANGE :	0.02591
ARITH. MEAN :	0.00958
ARITH. STD. DEV :	0.00767
GEOM. MEAN :	0.00677
GEOM. STD. DEV. :	2.79010
1ST QUARTILE :	0.00482
2ND QUARTILE :	0.00741
3RD QUARTILE :	0.00920
VOL. WGT. MEAN :	0.00958

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MERLIN/CUMULATIVE PRECIP.

#02

PERIOD OF REPORT : JAN 2, 85 TO DEC 31,85

PAGE : 1

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	13	12	0	13	13	11	12
MAXIMUM :	153.0	13.1905	*****	725.20	90.280	58.960	126.250
MINIMUM :	10.9	0.3076	*****	61.78	12.320	15.300	4.640
RANGE :	142.1	12.8829	*****	663.42	77.960	43.660	121.610
ARITH. MEAN :	78.3	4.9999	*****	280.57	42.180	34.121	25.854
ARITH. STD. DEV. :	51.3	3.8855	*****	174.86	22.588	15.284	33.803
GEOM. MEAN :	59.0	3.4072	*****	230.91	35.892	30.985	16.004
GEOM. STD. DEV. :	2.4	2.8894	*****	1.99	1.880	1.598	2.569
1ST QUARTILE :	30.5	2.2604	*****	142.10	21.720	18.880	8.450
2ND QUARTILE :	71.5	4.3338	*****	273.80	44.830	29.790	14.480
3RD QUARTILE :	104.5	7.9684	*****	317.82	51.510	45.050	24.495
VOL. WGT. MEAN :	*****	4.6654	*****	280.57	42.180	32.546	24.124

	KJELDAHL AS N MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANSE MG/M**2
# OF SAMPLES :	12	11	11	11	13	12	12
MAXIMUM :	74.000	8.925	9.000	83.750	69.560	1.4900	0.5280
MINIMUM :	11.520	3.060	0.510	1.000	3.007	0.0765	0.0765
RANGE :	62.480	5.865	8.490	82.750	66.553	1.4135	0.4515
ARITH. MEAN :	37.042	5.884	3.426	12.182	27.906	0.6881	0.2528
ARITH. STD. DEV. :	17.904	2.168	2.655	23.983	18.142	0.4543	0.1513
GEOM. MEAN :	32.564	5.513	2.534	4.920	21.464	0.5138	0.2068
GEOM. STD. DEV. :	1.763	1.468	2.366	3.509	2.357	2.4709	2.0123
1ST QUARTILE :	25.720	3.620	1.132	1.520	13.920	0.2440	0.1000
2ND QUARTILE :	36.510	5.397	2.240	4.177	26.075	0.6820	0.2855
3RD QUARTILE :	48.100	7.770	4.515	8.910	33.305	1.0340	0.3320
VOL. WGT. MEAN :	34.564	5.612	3.268	11.620	27.906	0.6420	0.2359

\*\*\*\*\* : INSUFFICIENT DATA

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.



ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : MERLIN/CUMULATIVE PRECIP.

#02

PERIOD OF REPORT : JAN 2, 85 TO DEC 31,85

PAGE : 2

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	12	13	11	13	13	11	13
MAXIMUM :	0.2520	0.840	8.9000	1.1062	0.035	8.545	0.1260
MINIMUM :	0.0040	0.222	1.0756	0.0875	0.003	1.207	0.0145
RANGE :	0.2480	0.617	7.8244	1.0186	0.032	7.338	0.1115
ARITH. MEAN :	0.0539	0.478	4.2810	0.4356	0.019	4.318	0.0652
ARITH. STD. DEV :	0.0753	0.199	2.6438	0.3335	0.011	2.500	0.0352
GEOM. MEAN :	0.0268	0.441	3.4985	0.3293	0.015	3.616	0.0542
GEOM. STD. DEV. :	3.3962	1.520	2.0180	2.2097	2.291	1.931	1.9956
1ST QUARTILE :	0.0105	0.308	1.5632	0.1823	0.006	1.742	0.0292
2ND QUARTILE :	0.0299	0.441	3.7957	0.2686	0.018	4.004	0.0657
3RD QUARTILE :	0.0405	0.526	5.7131	0.6301	0.028	5.484	0.0848
VOL. WGT. MEAN :	0.0503	0.478	4.0124	0.4356	0.019	4.047	0.0652

CADMIUM

MG/M\*\*2

# OF SAMPLES :	13
MAXIMUM :	0.01332
MINIMUM :	0.00040
RANGE :	0.01292
ARITH. MEAN :	0.00618
ARITH. STD. DEV :	0.00384
GEOM. MEAN :	0.00450
GEOM. STD. DEV. :	2.74872
1ST QUARTILE :	0.00333
2ND QUARTILE :	0.00535
3RD QUARTILE :	0.00867
VOL. WGT. MEAN :	0.00618

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : MOONBEAM/CUMULATIVE PRECIP. #27

PERIOD OF REPORT : JAN 3, 85 TO DEC 31,85

PAGE : 1

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	12	10	0	12	12	10	12
MAXIMUM :	72.0	3.4102	*****	186.55	33.000	23.100	16.470
MINIMUM :	12.0	0.2309	*****	26.00	5.600	2.000	0.000
RANGE :	60.0	3.1793	*****	160.55	27.400	21.100	16.470
ARITH. MEAN :	44.5	1.3955	*****	86.93	13.283	10.888	5.335
ARITH. STD. DEV. :	19.3	0.9338	*****	49.20	8.129	7.731	5.601
GEOM. MEAN :	39.8	1.1145	*****	74.42	11.466	8.206	3.191
GEOM. STD. DEV. :	1.7	2.1365	*****	1.82	1.732	2.339	2.980
1ST QUARTILE :	33.3	0.6744	*****	49.62	7.260	3.870	1.100
2ND QUARTILE :	40.5	1.1004	*****	75.20	9.640	8.050	4.150
3RD QUARTILE :	62.0	1.7872	*****	130.15	17.020	15.985	6.805
VOL. WGT. MEAN :	*****	1.2832	*****	86.93	13.283	10.012	5.335

	KJELDAHL AS N MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANSE MG/M**2
# OF SAMPLES :	12	11	11	11	12	12	11
MAXIMUM :	25.460	6.650	2.870	9.882	19.380	0.7920	0.3420
MINIMUM :	3.200	0.290	0.075	0.100	1.160	0.0100	0.0150
RANGE :	22.260	6.360	2.795	9.782	18.220	0.7820	0.3270
ARITH. MEAN :	13.000	2.358	1.251	3.512	7.674	0.3641	0.1788
ARITH. STD. DEV. :	7.825	1.805	1.063	3.647	6.492	0.2349	0.1055
GEOM. MEAN :	10.505	1.735	0.758	1.816	5.157	0.2299	0.1322
GEOM. STD. DEV. :	2.075	2.452	3.292	4.029	2.665	3.7445	2.6755
1ST QUARTILE :	5.210	0.800	0.295	0.550	2.281	0.1820	0.0490
2ND QUARTILE :	14.020	2.100	0.657	1.820	4.920	0.3900	0.2050
3RD QUARTILE :	18.218	2.807	2.100	5.290	12.760	0.5202	0.2511
VOL. WGT. MEAN :	13.000	2.211	1.173	3.293	7.674	0.3641	0.1677

\*\*\*\*\* : INSUFFICIENT DATA

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

---

STATION NAME : MOONBEAM/CUMULATIVE PRECIP.

#27

PERIOD OF REPORT : JAN 3, 85 TO DEC 31,85

PAGE : 2

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	11	11	10	11	11	11	10
MAXIMUM :	0.1900	0.535	3.3563	1.0190	0.029	6.190	0.1870
MINIMUM :	0.0030	0.033	0.1894	0.0582	0.000	0.369	0.0100
RANGE :	0.1870	0.502	3.1669	0.9608	0.029	5.821	0.1770
ARITH. MEAN :	0.0347	0.208	1.5988	0.3414	0.012	2.204	0.0640
ARITH. STD. DEV. :	0.0550	0.142	0.9766	0.2783	0.008	1.789	0.0596
GEOM. MEAN :	0.0158	0.163	1.2315	0.2454	0.017	1.652	0.0444
GEOM. STD. DEV. :	3.4881	2.209	2.4200	2.4822	2.016	2.256	2.4691
1ST QUARTILE :	0.0055	0.077	0.6240	0.0839	0.005	0.899	0.0239
2ND QUARTILE :	0.0108	0.169	1.6643	0.2764	0.010	1.499	0.0395
3RD QUARTILE :	0.0322	0.252	1.9755	0.4594	0.017	2.833	0.0697
VOL. WGT. MEAN :	0.0326	0.195	1.4701	0.3202	0.011	2.067	0.0603

CADMIUM

	MG/M**2
# OF SAMPLES :	10
MAXIMUM :	0.00684
MINIMUM :	0.00120
RANGE :	0.00564
ARITH. MEAN :	0.00392
ARITH. STD. DEV. :	0.00179
GEOM. MEAN :	0.00348
GEOM. STD. DEV. :	1.74418
1ST QUARTILE :	0.00198
2ND QUARTILE :	0.00420
3RD QUARTILE :	0.00481
VOL. WGT. MEAN :	0.00360

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

---

STATION NAME : MOOSONEE/CUMULATIVE PRECIP.

#39

PERIOD OF REPORT : DEC 1, 85 TO DEC 29,85

PAGE : 1

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	1	1	0	1	1	1	1
MAXIMUM :	29.7	0.1632	*****	17.82	5.940	8.019	7.722
MINIMUM :	29.7	0.1632	*****	17.82	5.940	8.019	7.722
RANGE :	0.0	0.0000	*****	0.00	0.000	0.000	0.000
ARITH. MEAN :	*****	*****	*****	*****	*****	*****	*****
ARITH. STD. DEV :	*****	*****	*****	*****	*****	*****	*****
GEOM. MEAN :	*****	*****	*****	*****	*****	*****	*****
GEOM. STD. DEV. :	*****	*****	*****	*****	*****	*****	*****
1ST QUARTILE :	*****	*****	*****	*****	*****	*****	*****
2ND QUARTILE :	*****	*****	*****	*****	*****	*****	*****
3RD QUARTILE :	*****	*****	*****	*****	*****	*****	*****
VOL. WGT. MEAN :	*****	*****	*****	*****	*****	*****	*****

	KJELDAHL AS N MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANESE MG/M**2
# OF SAMPLES :	1	1	1	1	1	1	1
MAXIMUM :	3.267	1.336	0.742	5.494	0.074	0.2970	0.0297
MINIMUM :	3.267	1.336	0.742	5.494	0.074	0.2970	0.0297
RANGE :	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000
ARITH. MEAN :	*****	*****	*****	*****	*****	*****	*****
ARITH. STD. DEV :	*****	*****	*****	*****	*****	*****	*****
GEOM. MEAN :	*****	*****	*****	*****	*****	*****	*****
GEOM. STD. DEV. :	*****	*****	*****	*****	*****	*****	*****
1ST QUARTILE :	*****	*****	*****	*****	*****	*****	*****
2ND QUARTILE :	*****	*****	*****	*****	*****	*****	*****
3RD QUARTILE :	*****	*****	*****	*****	*****	*****	*****
VOL. WGT. MEAN :	*****	*****	*****	*****	*****	*****	*****

\*\*\*\*\* : INSUFFICIENT DATA

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

---

STATION NAME : MOOSONEE/CUMULATIVE PRECIP. #39

PERIOD OF REPORT : DEC 1, 85 TO DEC 29,85

PAGE : 2

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	1	0	1	1	1	1	1
MAXIMUM :	0.0148	*****	1.7360	0.2419	0.006	2.011	0.0870
MINIMUM :	0.0148	*****	1.7360	0.2419	0.006	2.011	0.0870
RANGE :	0.0000	*****	0.0000	0.0000	0.000	0.000	0.0000
ARITH. MEAN :	*****	*****	*****	*****	*****	*****	*****
ARITH. STD. DEV :	*****	*****	*****	*****	*****	*****	*****
GEOM. MEAN :	*****	*****	*****	*****	*****	*****	*****
GEOM. STD. DEV. :	*****	*****	*****	*****	*****	*****	*****
1ST QUARTILE :	*****	*****	*****	*****	*****	*****	*****
2ND QUARTILE :	*****	*****	*****	*****	*****	*****	*****
3RD QUARTILE :	*****	*****	*****	*****	*****	*****	*****
VOL. WGT. MEAN :	*****	*****	*****	*****	*****	*****	*****

CADMIUM

MG/M\*\*2

# OF SAMPLES :	1
MAXIMUM :	0.02257
MINIMUM :	0.02257
RANGE :	0.00000
ARITH. MEAN :	*****
ARITH. STD. DEV :	*****
GEOM. MEAN :	*****
GEOM. STD. DEV. :	*****
1ST QUARTILE :	*****
2ND QUARTILE :	*****
3RD QUARTILE :	*****
VOL. WGT. MEAN :	*****

\*\*\*\*\* : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

---

STATION NAME : OTTER ISLAND/CUMULATIVE PRECIP. #38

PERIOD OF REPORT : APR 23, 85 TO NOV 5,85

PAGE : 1

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	7	7	0	7	7	7	7
MAXIMUM :	166.9	6.2009	*****	342.14	60.084	40.376	14.420
MINIMUM :	41.0	1.2954	*****	109.20	15.120	6.540	0.000
RANGE :	125.9	4.9056	*****	232.94	44.964	33.836	14.420
ARITH. MEAN :	93.0	3.1464	*****	219.69	30.459	20.340	5.173
ARITH. STD. DEV :	48.3	1.7754	*****	103.21	16.213	12.116	5.553
GEOM. MEAN :	82.6	2.7448	*****	198.49	27.165	17.277	3.444
GEOM. STD. DEV. :	1.7	1.7618	*****	1.64	1.667	1.884	2.353
1ST QUARTILE :	47.5	1.5009	*****	115.35	15.750	8.940	0.870
2ND QUARTILE :	68.0	2.2088	*****	163.10	23.555	13.990	2.337
3RD QUARTILE :	126.6	4.2023	*****	319.39	37.259	28.071	7.686
VOL. WGT. MEAN :	*****	3.1464	*****	219.69	30.459	20.340	5.173

	KJELDAHL AS N MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANSE MG/M**2
# OF SAMPLES :	7	7	7	7	7	7	7
MAXIMUM :	54.500	5.800	3.690	7.931	45.235	1.0900	0.5007
MINIMUM :	16.380	0.585	0.585	0.780	14.430	0.0540	0.0390
RANGE :	38.120	5.215	3.105	7.151	30.805	1.0360	0.4617
ARITH. MEAN :	33.737	3.299	2.157	3.128	29.991	0.4444	0.2954
ARITH. STD. DEV :	14.091	1.748	1.107	2.964	11.018	0.4343	0.1608
GEOM. MEAN :	30.972	2.738	1.852	2.103	28.051	0.2586	0.2351
GEOM. STD. DEV. :	1.588	2.140	1.912	2.616	1.508	3.3951	2.3980
1ST QUARTILE :	17.005	1.372	0.918	0.799	16.747	0.0577	0.1005
2ND QUARTILE :	32.660	2.967	1.980	1.410	29.105	0.2449	0.2877
3RD QUARTILE :	41.164	4.306	2.804	4.773	36.497	0.7077	0.3955
VOL. WGT. MEAN :	33.737	3.299	2.157	3.128	29.991	0.4444	0.2954

\*\*\*\*\* : INSUFFICIENT DATA

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

---

STATION NAME : OTTER ISLAND/CUMULATIVE PRECIP. #38

PERIOD OF REPORT : APR 23, 85 TO NOV 5,85

PAGE : 2

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	7	7	7	7	7	7	7
MAXIMUM :	0.1090	1.221	6.5425	0.8858	0.055	8.542	0.3205
MINIMUM :	0.0041	0.171	0.6397	0.0931	0.008	0.906	0.0087
RANGE :	0.1049	1.050	5.9028	0.7928	0.046	7.636	0.3117
ARITH. MEAN :	0.0302	0.581	3.1531	0.3838	0.023	4.077	0.0853
ARITH. STD. DEV :	0.0367	0.379	2.3453	0.2779	0.017	3.270	0.1100
GEOM. MEAN :	0.0171	0.470	2.3998	0.2988	0.019	3.005	0.0451
GEOM. STD. DEV. :	3.2255	2.093	2.3210	2.2200	2.006	2.373	3.3872
1ST QUARTILE :	0.0047	0.183	0.8979	0.1200	0.009	1.340	0.0148
2ND QUARTILE :	0.0155	0.472	2.3599	0.2887	0.014	1.977	0.0261
3RD QUARTILE :	0.0311	0.767	4.5069	0.4917	0.031	6.680	0.0975
VOL. WGT. MEAN :	0.0302	0.581	3.1531	0.3838	0.023	4.077	0.0853

CADMIUM

MG/M\*\*2

# OF SAMPLES :	7
MAXIMUM :	0.05014
MINIMUM :	0.00108
RANGE :	0.04906
ARITH. MEAN :	0.01186
ARITH. STD. DEV :	0.01727
GEOM. MEAN :	0.00575
GEOM. STD. DEV. :	3.63591
1ST QUARTILE :	0.00132
2ND QUARTILE :	0.00545
3RD QUARTILE :	0.00968
VOL. WGT. MEAN :	0.01186

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

---

STATION NAME : PALMERSTON/CUMULATIVE PRECIP.

#08

PERIOD OF REPORT : DEC 31, 84 TO DEC 31,85

PAGE : 1

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	13	12	0	12	12	12	12
MAXIMUM :	225.0	14.5272	*****	720.00	101.250	53.900	19.800
MINIMUM :	15.0	0.1868	*****	57.20	12.150	7.590	2.850
RANGE :	210.0	14.3404	*****	662.80	89.100	46.310	16.950
ARITH. MEAN :	79.5	3.0499	*****	240.24	39.122	26.088	10.735
ARITH. STD. DEV :	52.5	3.8281	*****	177.41	23.668	16.750	5.827
GEOM. MEAN :	65.2	1.8507	*****	196.11	33.688	20.897	9.188
GEOM. STD. DEV. :	2.0	2.9037	*****	1.93	1.776	2.068	1.839
1ST QUARTILE :	48.5	1.0353	*****	143.65	27.100	10.380	6.350
2ND QUARTILE :	69.0	1.9897	*****	206.45	32.825	25.725	9.250
3RD QUARTILE :	92.5	2.9905	*****	230.87	46.550	39.150	16.100
VOL. WGT. MEAN :	*****	3.0104	*****	237.13	38.614	25.750	10.596

	KJELDAHL AS N MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANSE MG/M**2
# OF SAMPLES :	12	12	11	12	12	12	12
MAXIMUM :	147.400	12.650	5.100	8.585	126.500	11.0000	0.7700
MINIMUM :	11.550	2.185	0.177	0.675	9.360	0.0300	0.0475
RANGE :	135.850	10.465	4.922	7.910	117.140	10.9700	0.7225
ARITH. MEAN :	47.650	5.325	2.351	4.090	41.659	1.4773	0.2727
ARITH. STD. DEV :	37.510	3.432	1.576	2.450	32.264	3.0339	0.2063
GEOM. MEAN :	37.555	4.502	1.668	3.337	32.712	0.5265	0.2058
GEOM. STD. DEV. :	2.052	1.803	2.832	2.061	2.089	4.3389	2.2818
1ST QUARTILE :	26.960	2.762	0.705	2.250	24.637	0.3375	0.1025
2ND QUARTILE :	35.785	4.112	1.850	3.355	32.420	0.5550	0.2400
3RD QUARTILE :	52.875	6.637	3.075	5.765	47.250	1.0825	0.3930
VOL. WGT. MEAN :	47.032	5.256	2.400	4.037	41.119	1.4582	0.2692

\*\*\*\*\* : INSUFFICIENT DATA

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.



ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

---

STATION NAME : PALMERSTON/CUMULATIVE PRECIP. #08

PERIOD OF REPORT : DEC 31, 84 TO DEC 31,85

PAGE : 2

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	12	12	12	12	12	12	12
MAXIMUM :	0.2475	1.115	7.4206	0.9185	0.045	5.601	0.2611
MINIMUM :	0.0045	0.130	1.1250	0.1350	0.003	1.194	0.0130
RANGE :	0.2430	0.985	6.2956	0.7835	0.042	4.407	0.2481
ARITH. MEAN :	0.0541	0.567	3.7792	0.4834	0.018	3.335	0.1034
ARITH. STD. DEV. :	0.0703	0.312	2.4472	0.2565	0.010	1.765	0.0823
GEOM. MEAN :	0.0272	0.473	3.0371	0.4139	0.015	2.895	0.0748
GEOM. STD. DEV. :	3.4812	1.982	2.0390	1.8578	1.921	1.764	2.4288
1ST QUARTILE :	0.0133	0.349	1.6427	0.2509	0.012	1.798	0.0466
2ND QUARTILE :	0.0225	0.552	2.9760	0.5046	0.017	2.536	0.0592
3RD QUARTILE :	0.0815	0.830	6.4080	0.5823	0.021	5.186	0.1619
VOL. WGT. MEAN :	0.0534	0.559	3.7302	0.4772	0.018	3.292	0.1021

CADMIUM

	MG/M**2
# OF SAMPLES :	12
MAXIMUM :	0.04040
MINIMUM :	0.00240
RANGE :	0.03800
ARITH. MEAN :	0.01124
ARITH. STD. DEV. :	0.01146
GEOM. MEAN :	0.00760
GEOM. STD. DEV. :	2.44237
1ST QUARTILE :	0.00410
2ND QUARTILE :	0.00686
3RD QUARTILE :	0.01627
VOL. WGT. MEAN :	0.01110

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

---

STATION NAME : PICKLE LAKE/CUMULATIVE PRECIP. #36

PERIOD OF REPORT : JAN 2, 85 TO DEC 31,85

PAGE : 1

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	11	10	0	11	11	11	11
MAXIMUM :	173.2	1.7320	*****	109.48	16.800	203.740	26.400
MINIMUM :	10.8	0.0094	*****	7.32	1.281	1.647	1.358
RANGE :	162.4	1.7226	*****	102.16	15.519	202.093	25.042
ARITH. MEAN :	80.7	0.5795	*****	53.58	8.299	27.718	8.286
ARITH. STD. DEV. :	55.1	0.5165	*****	38.08	6.134	58.721	9.171
GEOM. MEAN :	57.6	0.3103	*****	37.67	5.857	10.251	5.199
GEOM. STD. DEV. :	2.7	4.6336	*****	2.70	2.601	3.675	2.655
1ST QUARTILE :	17.1	0.1055	*****	12.45	1.983	3.192	2.348
2ND QUARTILE :	80.9	0.4468	*****	40.29	5.392	10.348	3.358
3RD QUARTILE :	121.0	0.7927	*****	88.05	14.068	17.974	8.554
VOL. WGT. MEAN :	*****	0.6108	*****	53.58	8.299	27.718	8.286

	KJELDAHL AS N MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANESE MG/M**2
# OF SAMPLES :	11	11	11	11	11	11	10
MAXIMUM :	65.880	31.110	14.030	19.052	24.910	7.6860	5.0020
MINIMUM :	1.836	0.324	0.540	0.337	0.000	0.1281	0.0183
RANGE :	64.044	30.786	13.490	18.715	24.910	7.5579	4.9837
ARITH. MEAN :	18.962	3.856	2.658	4.917	7.506	1.3927	0.6442
ARITH. STD. DEV. :	19.203	9.073	3.934	5.101	9.485	2.2737	1.5382
GEOM. MEAN :	11.107	1.232	1.524	3.301	3.583	0.5306	0.1453
GEOM. STD. DEV. :	3.255	3.580	2.644	2.712	3.330	4.0432	5.1054
1ST QUARTILE :	3.027	0.468	0.660	2.150	0.433	0.1614	0.0338
2ND QUARTILE :	11.517	0.799	1.025	2.910	2.630	0.2579	0.1400
3RD QUARTILE :	24.128	1.952	2.294	5.450	11.094	1.5537	0.2684
VOL. WGT. MEAN :	18.962	3.856	2.658	4.917	7.506	1.3927	0.6342

\*\*\*\*\* : INSUFFICIENT DATA

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : PICKLE LAKE/CUMULATIVE PRECIP. #36

PERIOD OF REPORT : JAN 2, 85 TO DEC 31,85

PAGE : 2

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	10	10	10	10	10	10	10
MAXIMUM :	0.7621	0.957	47.8606	1.7407	0.171	28.487	1.0620
MINIMUM :	0.0016	0.076	0.3714	0.0230	0.002	0.505	0.0294
RANGE :	0.7605	0.881	47.4892	1.7176	0.169	27.982	1.0326
ARITH. MEAN :	0.1005	0.248	7.5649	0.3763	0.032	4.789	0.1751
ARITH. STD. DEV :	0.2372	0.274	14.7635	0.5167	0.050	8.461	0.3168
GEOM. MEAN :	0.0162	0.171	1.9473	0.2046	0.016	2.155	0.0831
GEOM. STD. DEV. :	6.5183	2.281	5.5089	3.1652	3.431	3.357	2.9299
1ST QUARTILE :	0.0047	0.086	0.3840	0.1196	0.005	0.724	0.0376
2ND QUARTILE :	0.0113	0.148	1.9792	0.1672	0.019	2.350	0.0683
3RD QUARTILE :	0.0208	0.213	4.0665	0.2727	0.025	3.215	0.0897
VOL. WGT. MEAN :	0.0990	0.244	7.4470	0.3704	0.031	4.714	0.1724

CADMIUM

MG/M\*\*2

# OF SAMPLES :	10
MAXIMUM :	0.02078
MINIMUM :	0.00065
RANGE :	0.02014
ARITH. MEAN :	0.00396
ARITH. STD. DEV :	0.00619
GEOM. MEAN :	0.00205
GEOM. STD. DEV. :	2.90640
1ST QUARTILE :	0.00102
2ND QUARTILE :	0.00127
3RD QUARTILE :	0.00289
VOL. WGT. MEAN :	0.00390

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : PORT STANLEY/CUMULATIVE PRECIP. #03

PERIOD OF REPORT : JAN 2, 85 TO DEC 31,85

PAGE : 1

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	13	12	0	13	13	11	13
MAXIMUM :	220.0	20.0643	*****	935.00	125.400	60.390	41.730
MINIMUM :	13.0	0.2485	*****	78.30	12.740	8.190	2.860
RANGE :	207.0	19.8158	*****	856.70	112.660	52.200	38.870
ARITH. MEAN :	83.4	5.6284	*****	311.36	51.192	35.796	15.488
ARITH. STD. DEV :	56.5	5.1812	*****	219.90	28.657	16.458	9.794
GEOM. MEAN :	64.5	3.7366	*****	254.45	43.606	31.486	12.794
GEOM. STD. DEV. :	2.3	2.9856	*****	1.95	1.876	1.796	1.987
1ST QUARTILE :	37.0	2.4102	*****	143.10	29.425	21.890	9.230
2ND QUARTILE :	69.5	4.4711	*****	280.20	50.325	31.580	14.395
3RD QUARTILE :	106.0	7.3623	*****	351.67	60.340	47.675	15.795
VOL. WGT. MEAN :	*****	5.3383	*****	311.36	51.192	34.634	15.488

	KJELDAHL AS N MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANESE MG/M**2
# OF SAMPLES :	13	12	12	12	13	13	13
MAXIMUM :	81.740	11.600	6.100	8.550	67.100	3.5670	0.9760
MINIMUM :	10.920	1.365	0.000	0.715	5.075	0.0000	0.0650
RANGE :	70.820	10.235	6.100	7.835	62.025	3.5670	0.9110
ARITH. MEAN :	39.965	6.593	2.510	4.619	33.025	0.8390	0.4042
ARITH. STD. DEV :	24.538	2.912	1.941	2.375	21.171	1.0901	0.2748
GEOM. MEAN :	32.982	5.871	1.999	3.844	25.989	0.5333	0.3204
GEOM. STD. DEV. :	1.948	1.749	2.118	2.060	2.192	2.9871	2.1184
1ST QUARTILE :	19.345	4.792	0.919	2.697	15.820	0.1335	0.2120
2ND QUARTILE :	29.135	6.017	2.250	5.235	24.652	0.4685	0.3035
3RD QUARTILE :	54.935	8.640	3.892	5.550	43.045	0.6610	0.4630
VOL. WGT. MEAN :	39.965	6.752	2.570	4.731	33.025	0.8390	0.4042

\*\*\*\*\* : INSUFFICIENT DATA

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : PORT STANLEY/CUMULATIVE PRECIP. #03

PERIOD OF REPORT : JAN 2, 85 TO DEC 31,85

PAGE : 2

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	13	13	13	13	13	13	13
MAXIMUM :	0.2640	1.267	25.6853	1.2825	0.044	25.868	0.2630
MINIMUM :	0.0026	0.143	0.8111	0.0881	0.003	1.399	0.0171
RANGE :	0.2614	1.124	24.8742	1.1944	0.041	24.469	0.2460
ARITH. MEAN :	0.0561	0.585	6.7050	0.4988	0.022	7.175	0.1073
ARITH. STD. DEV. :	0.0723	0.336	7.0838	0.3628	0.013	6.901	0.0801
GEOM. MEAN :	0.0299	0.487	4.3467	0.3699	0.017	5.202	0.0806
GEOM. STD. DEV. :	3.3678	1.961	2.6234	2.3917	2.415	2.230	2.2859
1ST QUARTILE :	0.0107	0.297	2.1367	0.1861	0.011	2.711	0.0459
2ND QUARTILE :	0.0275	0.496	3.0765	0.4254	0.021	4.589	0.0677
3RD QUARTILE :	0.0535	0.751	7.3364	0.6137	0.028	6.638	0.1325
VOL. WGT. MEAN :	0.0561	0.585	6.7050	0.4988	0.022	7.175	0.1073

CADMIUM

MG/M\*\*2

# OF SAMPLES :	13
MAXIMUM :	0.01575
MINIMUM :	0.00078
RANGE :	0.01497
ARITH. MEAN :	0.00687
ARITH. STD. DEV. :	0.00448
GEOM. MEAN :	0.00524
GEOM. STD. DEV. :	2.37041
1ST QUARTILE :	0.00312
2ND QUARTILE :	0.00636
3RD QUARTILE :	0.00853
VOL. WGT. MEAN :	0.00687

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : QUETICO CENTRE/CUMULATIVE PRECIP. #32

PERIOD OF REPORT : JAN 2, 85 TO DEC 31,85

PAGE : 1

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	12	12	0	12	12	12	12
MAXIMUM :	211.0	2.1595	*****	189.60	36.340	64.780	23.700
MINIMUM :	8.9	0.0234	*****	8.90	3.196	0.979	1.424
RANGE :	202.1	2.1361	*****	180.70	33.144	63.801	22.276
ARITH. MEAN :	74.8	0.6366	*****	79.79	15.630	18.445	8.099
ARITH. STD. DEV :	63.9	0.6652	*****	62.86	10.232	17.934	6.077
GEOM. MEAN :	51.6	0.3562	*****	50.53	12.158	10.746	6.189
GEOM. STD. DEV. :	2.6	3.5044	*****	3.09	2.226	3.476	2.250
1ST QUARTILE :	23.7	0.2020	*****	18.91	6.187	5.187	3.859
2ND QUARTILE :	61.1	0.3232	*****	89.05	16.297	16.085	6.953
3RD QUARTILE :	110.0	1.0717	*****	131.08	22.310	26.935	10.510
VOL. WGT. MEAN :	*****	0.6366	*****	79.79	15.630	18.445	8.099

	KJELDAHL AS N MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANESE MG/M**2
# OF SAMPLES :	12	12	12	12	12	12	11
MAXIMUM :	109.020	9.480	10.270	9.495	69.520	2.2120	1.1060
MINIMUM :	1.880	0.044	0.000	1.112	0.000	0.1513	0.0178
RANGE :	107.140	9.435	10.270	8.383	69.520	2.0607	1.0882
ARITH. MEAN :	27.793	2.411	2.681	4.734	19.415	0.8023	0.2922
ARITH. STD. DEV :	30.588	2.674	3.055	2.795	19.955	0.6720	0.3134
GEOM. MEAN :	14.936	1.134	1.396	3.778	9.023	0.5534	0.1692
GEOM. STD. DEV. :	3.568	4.875	3.992	2.169	4.026	2.5549	3.3757
1ST QUARTILE :	5.328	0.707	0.361	1.961	2.464	0.2295	0.0428
2ND QUARTILE :	20.727	1.519	1.502	4.868	20.814	0.5810	0.2020
3RD QUARTILE :	39.117	2.912	4.470	6.781	28.252	1.2570	0.2912
VOL. WGT. MEAN :	27.793	2.411	2.681	4.734	19.415	0.8023	0.2751

\*\*\*\*\* : INSUFFICIENT DATA

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : QUETICO CENTRE/CUMULATIVE PRECIP. #32

PERIOD OF REPORT : JAN 2, 85 TO DEC 31,85

PAGE : 2

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	11	11	11	11	11	11	11
MAXIMUM :	0.0740	0.445	11.1279	0.5867	0.042	14.449	0.2476
MINIMUM :	0.0024	0.036	0.4409	0.0255	0.002	0.379	0.0045
RANGE :	0.0716	0.408	10.6871	0.5612	0.040	14.070	0.2430
ARITH. MEAN :	0.0218	0.195	2.8262	0.1814	0.016	3.469	0.0659
ARITH. STD. DEV. :	0.0219	0.125	2.9788	0.1637	0.013	3.861	0.0708
GEOM. MEAN :	0.0135	0.154	1.8577	0.1204	0.011	2.199	0.0370
GEOM. STD. DEV. :	2.9492	2.177	2.6978	2.7654	2.629	2.851	3.4663
1ST QUARTILE :	0.0045	0.064	0.5012	0.0372	0.004	0.621	0.0119
2ND QUARTILE :	0.0135	0.172	2.3674	0.1576	0.012	2.741	0.0410
3RD QUARTILE :	0.0261	0.253	2.7556	0.2186	0.022	3.519	0.0901
VOL. WGT. MEAN :	0.0205	0.183	2.6600	0.1708	0.015	3.265	0.0620

CADMIUM

MG/M\*\*2

# OF SAMPLES :	11
MAXIMUM :	0.00790
MINIMUM :	0.00027
RANGE :	0.00763
ARITH. MEAN :	0.00322
ARITH. STD. DEV. :	0.00244
GEOM. MEAN :	0.00226
GEOM. STD. DEV. :	2.71734
1ST QUARTILE :	0.00111
2ND QUARTILE :	0.00192
3RD QUARTILE :	0.00467
VOL. WGT. MEAN :	0.00303

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SHALLOW LAKE/CUMULATIVE PRECIP. #09

PERIOD OF REPORT : JAN 2, 85 TO DEC 31,85

PAGE : 1

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	13	11	0	11	11	10	11
MAXIMUM :	176.0	10.6051	*****	572.00	88.110	58.320	24.030
MINIMUM :	47.0	2.0994	*****	116.00	31.020	9.280	3.450
RANGE :	129.0	8.5056	*****	456.00	57.090	49.040	20.580
ARITH. MEAN :	90.5	4.5917	*****	290.19	49.658	32.723	11.292
ARITH. STD. DEV :	34.9	2.5021	*****	118.28	18.151	14.691	6.021
GEOM. MEAN :	84.7	4.0816	*****	269.62	46.955	29.293	9.773
GEOM. STD. DEV. :	1.5	1.6436	*****	1.50	1.411	1.705	1.802
1ST QUARTILE :	59.0	2.5786	*****	202.77	34.255	22.145	5.220
2ND QUARTILE :	90.5	3.3418	*****	261.50	38.960	29.270	11.000
3RD QUARTILE :	106.0	5.8801	*****	347.37	59.380	39.380	14.720
VOL. WGT. MEAN :	*****	4.5149	*****	285.34	48.828	32.818	11.103

	KJELDAHL AS N MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANSE MG/M**2
# OF SAMPLES :	11	10	10	10	11	11	11
MAXIMUM :	86.240	8.400	9.660	10.680	71.280	1.2460	0.7120
MINIMUM :	20.880	2.300	0.000	0.530	17.600	0.1175	0.0550
RANGE :	65.360	6.100	9.660	10.150	53.680	1.1285	0.6570
ARITH. MEAN :	49.714	5.552	2.563	4.760	40.732	0.5599	0.3051
ARITH. STD. DEV :	23.619	1.942	2.845	3.448	18.421	0.4575	0.2362
GEOM. MEAN :	44.662	5.191	1.796	3.471	36.763	0.3828	0.2117
GEOM. STD. DEV. :	1.636	1.508	2.453	2.542	1.631	2.6032	2.6539
1ST QUARTILE :	27.000	3.967	0.555	1.690	20.920	0.1415	0.0577
2ND QUARTILE :	41.865	5.460	1.710	3.925	37.962	0.2630	0.1920
3RD QUARTILE :	66.760	6.335	3.065	6.680	52.252	0.9060	0.4815
VOL. WGT. MEAN :	48.882	5.569	2.570	4.774	40.051	0.5505	0.3000

\*\*\*\*\* : INSUFFICIENT DATA

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.



ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : SHALLOW LAKE/CUMULATIVE PRECIP. #09

PERIOD OF REPORT : JAN 2, 85 TO DEC 31,85

PAGE : 2

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	11	10	11	11	11	11	11
MAXIMUM :	0.2112	0.738	7.9468	1.0101	0.080	8.953	0.1622
MINIMUM :	0.0047	0.133	0.7672	0.1233	0.009	1.391	0.0093
RANGE :	0.2065	0.605	7.1796	0.8868	0.071	7.563	0.1529
ARITH. MEAN :	0.0401	0.397	3.5556	0.4996	0.027	3.737	0.0765
ARITH. STD. DEV. :	0.0602	0.206	2.4983	0.3103	0.022	2.530	0.0515
GEOM. MEAN :	0.0203	0.351	2.7272	0.4034	0.021	3.082	0.0566
GEOM. STD. DEV. :	3.1505	1.713	2.2410	2.0661	1.983	1.903	2.5203
1ST QUARTILE :	0.0071	0.244	1.0946	0.1859	0.011	1.497	0.0227
2ND QUARTILE :	0.0162	0.332	2.8377	0.3975	0.020	2.710	0.0734
3RD QUARTILE :	0.0368	0.480	4.8809	0.7059	0.029	4.691	0.1047
VOL. WGT. MEAN :	0.0394	0.391	3.4962	0.4912	0.026	3.675	0.0752

CADMIUM

MG/M\*\*2

# OF SAMPLES :	10
MAXIMUM :	0.01335
MINIMUM :	0.00106
RANGE :	0.01229
ARITH. MEAN :	0.00611
ARITH. STD. DEV. :	0.00394
GEOM. MEAN :	0.00487
GEOM. STD. DEV. :	2.15636
1ST QUARTILE :	0.00282
2ND QUARTILE :	0.00550
3RD QUARTILE :	0.00786
VOL. WGT. MEAN :	0.00601

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : SMITH'S FALLS/CUMULATIVE PRECIP. #15

PERIOD OF REPORT : JAN 2, 85 TO DEC 31,85

PAGE : 1

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	13	12	0	13	13	11	13
MAXIMUM :	110.0	5.2649	*****	341.00	40.700	45.260	17.100
MINIMUM :	4.0	0.2249	*****	17.40	2.960	2.000	0.480
RANGE :	106.0	5.0400	*****	323.60	37.740	43.260	16.620
ARITH. MEAN :	54.2	2.5261	*****	146.10	28.609	17.763	8.623
ARITH. STD. DEV. :	26.2	1.2795	*****	92.43	10.593	12.674	5.352
GEOM. MEAN :	44.6	2.0838	*****	111.64	24.899	12.808	6.208
GEOM. STD. DEV. :	2.3	2.2112	*****	2.40	2.004	2.633	2.840
1ST QUARTILE :	33.5	1.7950	*****	69.55	22.690	4.465	4.260
2ND QUARTILE :	59.5	2.4324	*****	133.80	31.415	16.140	7.560
3RD QUARTILE :	64.5	3.0881	*****	197.22	34.390	24.367	11.350
VOL. WGT. MEAN :	*****	2.4870	*****	146.10	28.609	17.601	8.623

	KJELDAHL AS N MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANSE MG/M**2
# OF SAMPLES :	13	11	12	12	13	13	13
MAXIMUM :	43.778	15.500	4.900	10.260	32.400	0.7040	0.4452
MINIMUM :	4.120	0.325	0.000	0.200	2.100	0.0060	0.0280
RANGE :	39.658	15.175	4.900	10.060	30.300	0.6980	0.4172
ARITH. MEAN :	21.091	3.967	1.754	3.467	15.714	0.2435	0.1831
ARITH. STD. DEV. :	12.735	4.271	1.665	2.832	10.832	0.2029	0.1521
GEOM. MEAN :	16.854	2.270	1.030	2.369	11.757	0.1488	0.1225
GEOM. STD. DEV. :	2.144	3.421	3.800	2.850	2.388	3.5991	2.7065
1ST QUARTILE :	9.210	0.470	0.154	1.362	6.628	0.0872	0.0500
2ND QUARTILE :	19.205	2.980	1.702	2.800	11.535	0.1697	0.1195
3RD QUARTILE :	27.730	4.811	2.740	5.180	22.345	0.3110	0.2460
VOL. WGT. MEAN :	21.091	3.931	1.767	3.493	15.714	0.2435	0.1831

\*\*\*\*\* : INSUFFICIENT DATA

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : SMITH'S FALLS/CUMULATIVE PRECIP. #15

PERIOD OF REPORT : JAN 2, 85 TO DEC 31,85

PAGE : 2

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	13	13	13	12	13	13	13
MAXIMUM :	0.0544	1.468	4.6890	0.5427	0.030	6.414	0.1722
MINIMUM :	0.0004	0.038	0.2032	0.0340	0.002	0.227	0.0033
RANGE :	0.0540	1.430	4.4858	0.5088	0.029	6.187	0.1689
ARITH. MEAN :	0.0250	0.461	2.1828	0.2917	0.014	2.234	0.0694
ARITH. STD. DEV :	0.0192	0.432	1.6024	0.1635	0.008	1.776	0.0561
GEOM. MEAN :	0.0145	0.299	1.5246	0.2288	0.011	1.627	0.0428
GEOM. STD. DEV. :	4.1241	2.854	2.7044	2.3420	2.152	2.444	3.3963
1ST QUARTILE :	0.0062	0.162	0.8566	0.1581	0.007	0.921	0.0232
2ND QUARTILE :	0.0214	0.294	1.6408	0.3273	0.012	1.640	0.0493
3RD QUARTILE :	0.0374	0.514	3.4021	0.4138	0.014	2.792	0.0924
VOL. WGT. MEAN :	0.0250	0.461	2.1828	0.2872	0.014	2.234	0.0694

CADMIUM

MG/M\*\*2

# OF SAMPLES :	13
MAXIMUM :	0.02968
MINIMUM :	0.00004
RANGE :	0.02964
ARITH. MEAN :	0.00810
ARITH. STD. DEV :	0.00916
GEOM. MEAN :	0.00361
GEOM. STD. DEV. :	5.46358
1ST QUARTILE :	0.00185
2ND QUARTILE :	0.00323
3RD QUARTILE :	0.00793
VOL. WGT. MEAN :	0.00810

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : TURKEY LAKE/CUMULATIVE PRECIP. #37

PERIOD OF REPORT : JAN 1, 85 TO DEC 31,85

PAGE : 1

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	11	11	0	11	11	11	11
MAXIMUM :	102.4	8.3867	*****	592.83	68.693	35.984	12.233
MINIMUM :	15.9	0.3172	*****	12.72	4.611	1.590	0.873
RANGE :	86.5	8.0694	*****	580.11	64.082	34.394	11.360
ARITH. MEAN :	61.5	2.4377	*****	166.79	26.548	15.631	4.103
ARITH. STD. DEV :	33.1	2.2348	*****	163.77	17.809	13.604	3.445
GEOM. MEAN :	51.8	1.7342	*****	104.40	20.861	9.475	2.988
GEOM. STD. DEV. :	1.9	2.4515	*****	3.06	2.213	3.220	2.339
1ST QUARTILE :	26.8	0.8241	*****	38.41	9.647	2.577	1.300
2ND QUARTILE :	54.1	1.5659	*****	104.57	25.392	9.971	2.630
3RD QUARTILE :	90.7	2.8993	*****	226.37	34.353	27.380	5.918
VOL. WGT. MEAN :	*****	2.4377	*****	166.79	26.548	15.631	4.103

	KJELDAHL AS N MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANSE MG/M**2
# OF SAMPLES :	11	11	10	11	11	11	11
MAXIMUM :	77.162	9.881	5.922	8.730	68.693	1.1466	1.1264
MINIMUM :	2.544	0.219	0.000	0.097	1.510	0.0486	0.0292
RANGE :	74.618	9.662	5.922	8.633	67.182	1.0980	1.0972
ARITH. MEAN :	29.964	3.392	2.443	2.503	23.722	0.4271	0.3818
ARITH. STD. DEV :	25.239	3.151	2.406	2.371	21.122	0.3833	0.3306
GEOM. MEAN :	18.277	1.863	1.561	1.435	13.852	0.2437	0.2302
GEOM. STD. DEV. :	3.327	3.787	3.002	3.849	3.506	3.4398	3.4289
1ST QUARTILE :	4.824	0.423	0.423	0.369	4.093	0.0584	0.0523
2ND QUARTILE :	20.136	2.323	1.071	2.257	16.558	0.2617	0.3022
3RD QUARTILE :	48.222	4.897	4.753	2.699	35.957	0.7348	0.5163
VOL. WGT. MEAN :	29.964	3.392	2.617	2.503	23.722	0.4271	0.3818

\*\*\*\*\* : INSUFFICIENT DATA

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : TURKEY LAKE/CUMULATIVE PRECIP. #37

PERIOD OF REPORT : JAN 1, 85 TO DEC 31,85

PAGE : 2

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	10	10	10	11	10	10	11
MAXIMUM :	0.0659	0.863	23.9230	1.6617	0.049	17.928	0.2259
MINIMUM :	0.0029	0.045	0.2462	0.0373	0.003	0.274	0.0040
RANGE :	0.0629	0.817	23.6768	1.6245	0.046	17.654	0.2219
ARITH. MEAN :	0.0223	0.403	4.8656	0.4114	0.020	4.321	0.0659
ARITH. STD. DEV :	0.0191	0.297	7.1311	0.4584	0.016	5.452	0.0641
GEOM. MEAN :	0.0154	0.271	2.0481	0.2646	0.014	2.110	0.0412
GEOM. STD. DEV. :	2.6848	2.943	4.3944	2.7141	2.599	3.905	3.0980
1ST QUARTILE :	0.0066	0.103	0.3804	0.1428	0.005	0.496	0.0166
2ND QUARTILE :	0.0169	0.403	2.8887	0.2515	0.017	2.831	0.0416
3RD QUARTILE :	0.0252	0.595	4.2081	0.3938	0.028	3.737	0.0913
VOL. WGT. MEAN :	0.0215	0.389	4.6937	0.4114	0.019	4.168	0.0659

CADMIUM

MG/M\*\*2

# OF SAMPLES :	11
MAXIMUM :	0.00941
MINIMUM :	0.00064
RANGE :	0.00877
ARITH. MEAN :	0.00485
ARITH. STD. DEV :	0.00296
GEOM. MEAN :	0.00384
GEOM. STD. DEV. :	2.23999
1ST QUARTILE :	0.00209
2ND QUARTILE :	0.00453
3RD QUARTILE :	0.00671
VOL. WGT. MEAN :	0.00485

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : UXBRIDGE/CUMULATIVE PRECIP.

#11

PERIOD OF REPORT : JAN 2, 85 TO JAN 7,86

PAGE : 1

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	9	8	0	8	8	6	8
MAXIMUM :	170.0	8.3712	*****	433.50	111.320	56.870	71.390
MINIMUM :	1.5	0.0180	*****	5.25	0.870	0.000	0.180
RANGE :	168.5	8.3531	*****	428.25	110.450	56.870	71.210
ARITH. MEAN :	75.1	3.7302	*****	211.06	41.166	21.110	16.097
ARITH. STD. DEV :	55.7	3.1173	*****	154.26	36.027	23.711	22.847
GEOM. MEAN :	44.6	1.7531	*****	125.70	22.933	8.844	6.881
GEOM. STD. DEV. :	4.3	7.2329	*****	4.27	4.516	4.102	5.565
1ST QUARTILE :	24.5	1.4368	*****	79.47	15.020	0.645	5.250
2ND QUARTILE :	57.5	2.6042	*****	216.50	31.900	12.150	9.855
3RD QUARTILE :	109.5	6.6852	*****	328.90	61.650	28.200	13.500
VOL. WGT. MEAN :	*****	3.6688	*****	196.03	38.234	17.886	14.951

	KJELDAHL AS N MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANESE MG/M**2
# OF SAMPLES :	8	7	8	8	9	8	8
MAXIMUM :	69.700	8.125	7.650	29.645	57.800	0.9100	0.7150
MINIMUM :	1.320	0.000	0.045	0.090	0.000	0.0000	0.0150
RANGE :	68.380	8.125	7.605	29.555	57.800	0.9100	0.7000
ARITH. MEAN :	31.219	3.654	3.419	6.902	21.790	0.2950	0.2761
ARITH. STD. DEV :	25.669	3.221	2.512	9.728	20.682	0.3497	0.2601
GEOM. MEAN :	18.294	2.313	1.891	2.588	10.735	0.2228	0.1520
GEOM. STD. DEV. :	3.822	3.508	5.216	6.041	3.605	3.5532	3.8295
1ST QUARTILE :	9.610	0.105	1.250	1.375	3.261	0.0472	0.0572
2ND QUARTILE :	28.950	2.500	3.557	3.812	10.650	0.1450	0.1850
3RD QUARTILE :	50.805	6.122	5.020	7.552	35.167	0.5327	0.4970
VOL. WGT. MEAN :	28.995	3.219	3.175	6.410	21.790	0.2740	0.2564

\*\*\*\*\* : INSUFFICIENT DATA

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : UXBRIDGE/CUMULATIVE PRECIP. #11

PERIOD OF REPORT : JAN 2, 85 TO JAN 7,86

PAGE : 2

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	8	8	8	8	8	8	8
MAXIMUM :	0.1331	1.687	6.4723	1.0842	0.034	5.999	0.1445
MINIMUM :	0.0001	0.011	0.2088	0.0139	0.000	0.181	0.0019
RANGE :	0.1329	1.675	6.2635	1.0703	0.034	5.818	0.1426
ARITH. MEAN :	0.0325	0.518	2.8278	0.5195	0.019	2.558	0.0668
ARITH. STD. DEV :	0.0423	0.504	2.3236	0.3776	0.013	2.126	0.0450
GEOM. MEAN :	0.0133	0.299	1.8883	0.3179	0.011	1.535	0.0436
GEOM. STD. DEV. :	7.2471	4.274	3.0096	4.0942	4.973	3.589	3.8602
1ST QUARTILE :	0.0109	0.244	1.3775	0.2195	0.007	0.667	0.0421
2ND QUARTILE :	0.0205	0.468	1.6304	0.4570	0.022	2.471	0.0547
3RD QUARTILE :	0.0320	0.510	4.9626	0.8524	0.028	4.002	0.0974
VOL. WGT. MEAN :	0.0302	0.481	2.6263	0.4825	0.017	2.375	0.0621

CADMIUM

MG/M\*\*2

# OF SAMPLES :	8
MAXIMUM :	0.03146
MINIMUM :	0.00030
RANGE :	0.03116
ARITH. MEAN :	0.00832
ARITH. STD. DEV :	0.00993
GEOM. MEAN :	0.00438
GEOM. STD. DEV. :	3.97385
1ST QUARTILE :	0.00253
2ND QUARTILE :	0.00585
3RD QUARTILE :	0.00900
VOL. WGT. MEAN :	0.00772

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : WATERLOO/CUMULATIVE PRECIP.

#07

PERIOD OF REPORT : JAN 1, 85 TO DEC 31,85

PAGE : 1

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	13	13	0	13	13	12	13
MAXIMUM :	189.0	16.0865	*****	784.35	94.500	120.960	44.220
MINIMUM :	26.0	0.0033	*****	24.50	1.750	2.680	1.050
RANGE :	163.0	16.0833	*****	759.85	92.750	118.280	43.170
ARITH. MEAN :	86.5	4.0520	*****	279.79	45.243	34.994	16.525
ARITH. STD. DEV :	47.7	4.2675	*****	185.89	28.303	32.161	11.768
GEOM. MEAN :	74.3	1.6845	*****	217.34	31.699	22.171	12.065
GEOM. STD. DEV. :	1.8	8.4715	*****	2.36	3.064	3.142	2.634
1ST QUARTILE :	47.5	1.0384	*****	165.55	22.210	14.415	7.970
2ND QUARTILE :	73.0	2.6787	*****	273.90	42.750	28.770	14.175
3RD QUARTILE :	108.0	4.7565	*****	291.10	64.560	48.670	19.090
VOL. WGT. MEAN :	*****	4.0520	*****	279.79	45.243	33.066	16.525

	KJELDAHL AS N MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANSE MG/M**2
# OF SAMPLES :	13	13	12	13	13	12	13
MAXIMUM :	86.880	29.040	5.280	24.790	69.600	1.7760	1.0080
MINIMUM :	5.600	0.350	0.235	1.400	2.100	0.0700	0.0350
RANGE :	81.280	28.690	5.045	23.390	67.500	1.7060	0.9730
ARITH. MEAN :	45.843	7.601	2.381	6.791	34.091	0.6485	0.3985
ARITH. STD. DEV :	25.837	7.290	1.565	6.678	19.368	0.5389	0.2968
GEOM. MEAN :	37.355	5.120	1.745	4.581	26.499	0.4126	0.2960
GEOM. STD. DEV. :	2.132	2.839	2.628	2.501	2.496	3.0480	2.4339
1ST QUARTILE :	25.045	3.302	1.399	2.047	22.370	0.1792	0.1875
2ND QUARTILE :	38.040	5.255	2.040	3.525	29.922	0.5540	0.2855
3RD QUARTILE :	58.470	7.695	3.207	8.577	40.002	1.0575	0.4975
VOL. WGT. MEAN :	45.843	7.601	2.249	6.791	34.091	0.6128	0.3985

\*\*\*\*\* : INSUFFICIENT DATA

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.



ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : WATERLOO/CUMULATIVE PRECIP. #07

PERIOD OF REPORT : JAN 1, 85 TO DEC 31,85

PAGE : 2

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	13	13	13	13	13	13	13
MAXIMUM :	0.3024	2.403	42.4035	1.6328	0.122	19.787	0.8012
MINIMUM :	0.0052	0.179	0.9709	0.0441	0.006	1.569	0.0062
RANGE :	0.2972	2.224	41.4326	1.5886	0.116	18.218	0.7950
ARITH. MEAN :	0.0766	0.833	9.9276	0.7805	0.030	5.407	0.1976
ARITH. STD. DEV :	0.1030	0.627	12.1143	0.5082	0.029	5.731	0.2346
GEOM. MEAN :	0.0351	0.651	5.7122	0.5687	0.023	3.691	0.1003
GEOM. STD. DEV. :	3.6474	2.092	2.9314	2.7059	2.040	2.326	3.8124
1ST QUARTILE :	0.0153	0.360	3.0765	0.3118	0.015	1.917	0.0476
2ND QUARTILE :	0.0252	0.625	4.6529	0.6783	0.022	2.269	0.1040
3RD QUARTILE :	0.0681	0.961	7.2997	1.0188	0.030	5.561	0.2008
VOL. WGT. MEAN :	0.0766	0.833	9.9276	0.7805	0.030	5.407	0.1976

CADMIUM

MG/M\*\*2

# OF SAMPLES :	12
MAXIMUM :	0.21338
MINIMUM :	0.00630
RANGE :	0.20708
ARITH. MEAN :	0.07713
ARITH. STD. DEV :	0.06221
GEOM. MEAN :	0.05111
GEOM. STD. DEV. :	2.99387
1ST QUARTILE :	0.03562
2ND QUARTILE :	0.06364
3RD QUARTILE :	0.11087
VOL. WGT. MEAN :	0.08091

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : WHITNEY/CUMULATIVE PRECIP.

#19

PERIOD OF REPORT : JAN 2, 85 TO JAN 2, 86

PAGE : 1

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	13	12	0	12	12	13	12
MAXIMUM :	102.0	6.1461	*****	341.70	50.700	33.840	19.740
MINIMUM :	33.0	1.3366	*****	24.75	14.500	3.630	3.060
RANGE :	69.0	4.8095	*****	316.95	36.200	30.210	16.680
ARITH. MEAN :	62.2	3.2004	*****	165.85	31.778	14.595	8.797
ARITH. STD. DEV. :	20.3	1.4144	*****	94.60	11.351	9.334	5.857
GEOM. MEAN :	59.3	2.9086	*****	136.62	29.734	11.782	7.328
GEOM. STD. DEV. :	1.4	1.5993	*****	2.06	1.487	2.032	1.855
1ST QUARTILE :	51.0	2.0717	*****	95.90	24.730	5.960	4.505
2ND QUARTILE :	54.5	3.1295	*****	145.72	30.840	12.229	6.480
3RD QUARTILE :	70.0	3.9666	*****	242.15	40.990	20.400	12.233
VOL. WGT. MEAN :	*****	3.1997	*****	165.81	31.771	14.595	8.795

	KJELDAHL AS N MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANSE MG/M**2
# OF SAMPLES :	12	13	12	12	12	12	11
MAXIMUM :	64.480	3.360	4.160	13.630	50.960	2.4960	0.2500
MINIMUM :	4.620	0.082	0.082	0.510	1.950	0.0265	0.0165
RANGE :	59.860	3.277	4.077	13.120	49.010	2.4695	0.2335
ARITH. MEAN :	22.163	1.777	1.330	3.591	17.608	0.6226	0.1304
ARITH. STD. DEV. :	16.609	1.036	1.482	3.665	14.088	0.6882	0.0906
GEOM. MEAN :	17.379	1.331	0.601	2.441	12.219	0.3251	0.0945
GEOM. STD. DEV. :	2.107	2.719	4.210	2.486	2.738	3.8752	2.5526
1ST QUARTILE :	10.245	0.965	0.139	1.355	9.125	0.1045	0.0405
2ND QUARTILE :	19.220	1.555	0.450	2.265	13.467	0.5205	0.0900
3RD QUARTILE :	27.350	2.470	2.230	4.359	25.305	0.7880	0.2160
VOL. WGT. MEAN :	22.158	1.777	1.330	3.590	17.604	0.6225	0.1263

\*\*\*\*\* : INSUFFICIENT DATA

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION  
(SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : WHITNEY/CUMULATIVE PRECIP.

#19

PERIOD OF REPORT : JAN 2, 85 TO JAN 2,86

PAGE : 2

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	12	12	11	12	12	11	12
MAXIMUM :	0.1020	0.755	4.0476	1.1536	0.031	4.117	0.1498
MINIMUM :	0.0040	0.133	0.6131	0.0431	0.007	0.662	0.0083
RANGE :	0.0980	0.623	3.4345	1.1106	0.025	3.455	0.1415
ARITH. MEAN :	0.0201	0.295	2.2032	0.4423	0.015	2.413	0.0650
ARITH. STD. DEV :	0.0265	0.176	1.2131	0.3276	0.009	1.099	0.0485
GEOM. MEAN :	0.0132	0.258	1.8503	0.3305	0.013	2.150	0.0467
GEOM. STD. DEV. :	2.3390	1.688	1.9432	2.4085	1.657	1.720	2.5296
1ST QUARTILE :	0.0075	0.164	0.8414	0.2235	0.010	1.454	0.0244
2ND QUARTILE :	0.0156	0.266	1.9492	0.3061	0.011	2.224	0.0569
3RD QUARTILE :	0.0169	0.335	3.0999	0.6456	0.020	3.038	0.1060
VOL. WGT. MEAN :	0.0200	0.295	2.1336	0.4422	0.015	2.337	0.0650

CADMIUM

MG/M\*\*2

# OF SAMPLES :	12
MAXIMUM :	0.03478
MINIMUM :	0.00132
RANGE :	0.03346
ARITH. MEAN :	0.00775
ARITH. STD. DEV :	0.01037
GEOM. MEAN :	0.00451
GEOM. STD. DEV. :	2.66184
1ST QUARTILE :	0.00244
2ND QUARTILE :	0.00368
3RD QUARTILE :	0.00593
VOL. WGT. MEAN :	0.00775

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : WILBERFORCE/CUMULATIVE PRECIP.

#18

PERIOD OF REPORT : JAN 2, 85 TO JAN 3,86

PAGE : 1

	PRECIP.	FREE H+	TOTAL H+	SULPHATE	NITRATE	CALCIUM	CHLORIDE
	MM	LAB MG/M**2	TO PH8.3 MG/M**2	MG/M**2	AS N MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	13	13	0	13	13	12	13
MAXIMUM :	160.0	9.8655	*****	584.00	65.270	41.730	30.780
MINIMUM :	36.0	2.0716	*****	36.00	21.960	1.710	2.310
RANGE :	124.0	7.7939	*****	548.00	43.310	40.020	28.470
ARITH. MEAN :	83.5	4.0904	*****	227.19	41.691	17.184	11.926
ARITH. STD. DEV :	35.3	2.1152	*****	150.13	14.530	12.058	7.167
GEOM. MEAN :	76.5	3.7116	*****	185.13	39.433	12.737	10.002
GEOM. STD. DEV. :	1.6	1.5494	*****	2.02	1.417	2.483	1.929
1ST QUARTILE :	55.5	2.5829	*****	138.60	29.740	8.445	7.260
2ND QUARTILE :	77.5	3.5834	*****	169.35	39.555	13.880	10.650
3RD QUARTILE :	106.0	4.0916	*****	251.30	42.995	26.445	14.305
VOL. WGT. MEAN :	*****	4.0904	*****	227.19	41.691	17.073	11.926
	KJELDAHL	MAGNESIM	POTASSIM	SODIUM	AMMONIUM	PHOSPHOR	MANGANSE
	AS N MG/M**2	MG/M**2	MG/M**2	MG/M**2	AS N MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	13	12	13	13	13	13	13
MAXIMUM :	65.800	6.420	5.885	12.540	51.800	2.5410	1.6170
MINIMUM :	6.120	0.262	0.000	0.360	3.600	0.0000	0.0360
RANGE :	59.680	6.157	5.885	12.180	48.200	2.5410	1.5810
ARITH. MEAN :	31.419	2.270	1.794	4.609	24.600	0.7288	0.2919
ARITH. STD. DEV :	21.285	1.867	1.973	3.516	15.750	0.6786	0.4290
GEOM. MEAN :	24.206	1.525	1.267	3.175	19.833	0.5290	0.1568
GEOM. STD. DEV. :	2.236	2.839	3.078	2.830	2.080	3.1290	2.9865
1ST QUARTILE :	15.160	0.845	0.061	1.785	14.385	0.1265	0.0572
2ND QUARTILE :	22.035	1.980	0.600	3.787	16.545	0.7075	0.1535
3RD QUARTILE :	44.535	2.880	2.787	5.552	33.125	0.8085	0.2325
VOL. WGT. MEAN :	31.419	2.255	1.794	4.609	24.600	0.7288	0.2919

\*\*\*\*\* : INSUFFICIENT DATA

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : WILBERFORCE/CUMULATIVE PRECIP. #18

PERIOD OF REPORT : JAN 2, 85 TO JAN 3, 86

PAGE : 2

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	13	13	12	13	12	12	13
MAXIMUM :	0.0749	0.579	8.4177	1.1000	0.054	12.326	0.2571
MINIMUM :	0.0036	0.077	0.6502	0.1238	0.007	1.002	0.0077
RANGE :	0.0713	0.502	7.7675	0.9762	0.046	11.325	0.2494
ARITH. MEAN :	0.0302	0.325	2.5628	0.4810	0.021	4.395	0.1179
ARITH. STD. DEV :	0.0218	0.146	2.1742	0.2964	0.013	3.779	0.0728
GEOM. MEAN :	0.0218	0.290	1.9436	0.4005	0.017	3.257	0.0918
GEOM. STD. DEV. :	2.5329	1.708	2.1493	1.9158	1.862	2.223	2.4204
1ST QUARTILE :	0.0110	0.236	1.0174	0.2547	0.011	1.799	0.0699
2ND QUARTILE :	0.0227	0.272	1.9375	0.3793	0.018	3.278	0.0865
3RD QUARTILE :	0.0438	0.386	3.4235	0.5383	0.027	5.055	0.1478
VOL. WGT. MEAN :	0.0302	0.325	2.5462	0.4810	0.021	4.367	0.1179

CADMIUM

MG/M\*\*2

# OF SAMPLES :	13
MAXIMUM :	0.01443
MINIMUM :	0.00036
RANGE :	0.01407
ARITH. MEAN :	0.00521
ARITH. STD. DEV :	0.00379
GEOM. MEAN :	0.00364
GEOM. STD. DEV. :	2.81506
1ST QUARTILE :	0.00197
2ND QUARTILE :	0.00461
3RD QUARTILE :	0.00663
VOL. WGT. MEAN :	0.00521

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : WILKESPORT/CUMULATIVE PRECIP.

#04

PERIOD OF REPORT : JAN 2, 85 TO DEC 31,85

PAGE : 1

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	13	12	0	12	12	10	12
MAXIMUM :	194.0	15.0592	*****	795.40	102.820	52.380	31.680
MINIMUM :	9.4	0.1711	*****	63.92	18.900	12.070	8.050
RANGE :	184.6	14.8882	*****	731.48	83.920	40.310	23.630
ARITH. MEAN :	76.5	5.2053	*****	315.77	48.523	34.315	18.463
ARITH. STD. DEV :	48.0	4.4876	*****	229.52	28.577	14.568	7.771
GEOM. MEAN :	60.9	3.4490	*****	251.89	41.623	30.867	16.902
GEOM. STD. DEV. :	2.2	3.1340	*****	2.04	1.788	1.686	1.568
1ST QUARTILE :	34.5	2.5898	*****	172.10	27.725	20.165	10.995
2ND QUARTILE :	73.7	3.9274	*****	234.55	39.542	34.260	17.595
3RD QUARTILE :	98.0	5.7577	*****	384.87	59.615	44.752	25.610
VOL. WGT. MEAN :	*****	4.9389	*****	308.87	47.463	31.508	18.060

	KJELDAHL AS N MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANSE MG/M**2
# OF SAMPLES :	11	10	9	10	12	11	11
MAXIMUM :	85.050	8.730	15.225	8.786	78.000	7.1400	2.8350
MINIMUM :	18.900	1.775	0.275	2.800	10.340	0.0710	0.0960
RANGE :	66.150	6.955	14.950	5.986	67.660	7.0690	2.7390
ARITH. MEAN :	49.857	5.703	4.576	5.333	38.534	1.2481	0.5326
ARITH. STD. DEV :	26.092	2.286	4.505	2.172	23.383	2.0205	0.7966
GEOM. MEAN :	43.009	5.149	2.918	4.932	31.800	0.5506	0.3010
GEOM. STD. DEV. :	1.810	1.690	3.091	1.525	1.958	3.8735	2.6991
1ST QUARTILE :	22.025	3.417	1.652	3.170	18.255	0.1133	0.1270
2ND QUARTILE :	42.306	6.087	3.190	5.197	34.352	0.6160	0.2403
3RD QUARTILE :	72.300	6.622	4.247	6.540	58.555	1.1050	0.3965
VOL. WGT. MEAN :	43.789	5.237	3.908	4.896	36.562	1.0962	0.4678

\*\*\*\*\* : INSUFFICIENT DATA

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : WILKESPORT/CUMULATIVE PRECIP. #04

PERIOD OF REPORT : JAN 2, 85 TO DEC 31,85

PAGE : 2

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	12	12	12	12	12	12	12
MAXIMUM :	0.1056	1.827	13.9020	1.5895	0.095	11.930	0.1865
MINIMUM :	0.0056	0.304	1.3294	0.0798	0.007	1.977	0.0104
RANGE :	0.1000	1.523	12.5726	1.5097	0.087	9.953	0.1762
ARITH. MEAN :	0.0487	0.695	4.4923	0.5363	0.035	4.491	0.0919
ARITH. STD. DEV :	0.0336	0.421	3.5876	0.4564	0.026	3.003	0.0531
GEOM. MEAN :	0.0357	0.609	3.5609	0.3761	0.027	3.807	0.0738
GEOM. STD. DEV. :	2.5392	1.674	1.9881	2.5330	2.239	1.777	2.2143
1ST QUARTILE :	0.0237	0.445	2.2461	0.2397	0.013	2.204	0.0467
2ND QUARTILE :	0.0407	0.525	3.3497	0.3669	0.036	3.691	0.0846
3RD QUARTILE :	0.0808	0.830	5.3269	0.8607	0.047	4.989	0.1315
VOL. WGT. MEAN :	0.0454	0.648	4.1863	0.4998	0.033	4.185	0.0856

CADMIUM

MG/M\*\*2

# OF SAMPLES :	12
MAXIMUM :	0.01536
MINIMUM :	0.00168
RANGE :	0.01368
ARITH. MEAN :	0.00953
ARITH. STD. DEV :	0.00451
GEOM. MEAN :	0.00811
GEOM. STD. DEV. :	1.96411
1ST QUARTILE :	0.00608
2ND QUARTILE :	0.00984
3RD QUARTILE :	0.01339
VOL. WGT. MEAN :	0.00888

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WINISK/CUMULATIVE PRECIP.

#29

PERIOD OF REPORT : JAN 28, 85 TO JAN 3,86

PAGE : 1

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	6	5	0	5	5	5	5
MAXIMUM :	396.3	0.1066	*****	49.98	4.160	19.458	95.676
MINIMUM :	13.8	0.0019	*****	18.20	0.000	7.644	40.404
RANGE :	382.5	0.1047	*****	31.78	4.160	11.814	55.272
ARITH. MEAN :	89.3	0.0326	*****	28.04	2.137	13.833	64.729
ARITH. STD. DEV. :	150.9	0.0432	*****	13.16	1.957	4.864	24.472
GEOM. MEAN :	40.2	0.0125	*****	26.02	1.524	13.076	61.167
GEOM. STD. DEV. :	3.3	5.7408	*****	1.51	3.432	1.473	1.454
1ST QUARTILE :	16.0	0.0021	*****	18.76	0.103	8.844	44.522
2ND QUARTILE :	29.9	0.0117	*****	20.82	1.359	12.702	50.816
3RD QUARTILE :	39.8	0.0262	*****	26.36	3.159	16.010	69.462
VOL. WGT. MEAN :	*****	0.1044	*****	89.76	6.841	44.276	207.178

	KJELDAHL AS N MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANSE MG/M**2
# OF SAMPLES :	5	5	5	5	5	5	4
MAXIMUM :	14.400	7.659	3.094	62.832	0.139	1.0240	0.2560
MINIMUM :	1.820	2.821	0.000	28.800	0.000	0.3864	0.0182
RANGE :	12.580	4.838	3.094	34.032	0.139	0.6376	0.2378
ARITH. MEAN :	5.036	6.003	1.710	39.500	0.037	0.5854	0.0993
ARITH. STD. DEV. :	5.259	1.967	1.140	14.729	0.061	0.2700	0.1099
GEOM. MEAN :	3.704	5.667	1.775	37.588	0.364	0.5437	0.0593
GEOM. STD. DEV. :	2.202	1.506	1.383	1.407	3.140	1.5130	3.3233
1ST QUARTILE :	2.338	4.370	0.682	29.415	0.000	0.4025	0.0230
2ND QUARTILE :	2.946	5.959	1.659	30.195	0.000	0.4235	0.0615
3RD QUARTILE :	3.052	6.807	2.046	37.918	0.023	0.5490	0.1756
VOL. WGT. MEAN :	16.119	19.214	5.474	126.428	0.118	1.8737	0.2823

\*\*\*\*\* : INSUFFICIENT DATA

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.



ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : WINISK/CUMULATIVE PRECIP.

#29

PERIOD OF REPORT : JAN 28, 85 TO JAN 3, 86

PAGE : 2

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	4	4	4	4	4	4	4
MAXIMUM :	0.0160	3.530	17.3760	0.4616	0.019	3.152	0.2973
MINIMUM :	0.0055	0.092	0.7202	0.0737	0.004	0.887	0.0166
RANGE :	0.0105	3.438	16.6558	0.3879	0.016	2.265	0.2808
ARITH. MEAN :	0.0091	0.982	5.0882	0.2535	0.009	1.574	0.0998
ARITH. STD. DEV. :	0.0049	1.699	8.1958	0.1753	0.007	1.058	0.1327
GEOM. MEAN :	0.0083	0.295	1.9814	0.2023	0.008	1.373	0.0534
GEOM. STD. DEV. :	1.6665	5.324	4.3464	2.2762	2.049	1.760	3.4764
1ST QUARTILE :	0.0055	0.119	0.8225	0.1116	0.005	0.999	0.0232
2ND QUARTILE :	0.0075	0.153	1.1284	0.2394	0.008	1.128	0.0426
3RD QUARTILE :	0.0128	1.845	9.3539	0.3954	0.014	2.149	0.1763
VOL. WGT. MEAN :	0.0260	2.791	14.4591	0.7204	0.027	4.472	0.2835

CADMIUM

MG/M\*\*2

# OF SAMPLES :	4
MAXIMUM :	0.00608
MINIMUM :	0.00091
RANGE :	0.00517
ARITH. MEAN :	0.00240
ARITH. STD. DEV. :	0.00248
GEOM. MEAN :	0.00172
GEOM. STD. DEV. :	2.42326
1ST QUARTILE :	0.00093
2ND QUARTILE :	0.00131
3RD QUARTILE :	0.00388
VOL. WGT. MEAN :	0.00683

PART VI

SUMMARY STATISTICS OF WET DEPOSITION BY REGION

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : CENTRAL REGION/CUMULATIVE PRECIP.

PERIOD OF REPORT : DEC 31, 84 TO JAN 7,86

PAGE : 1

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	59	55	0	56	56	51	56
MAXIMUM :	243.0	9.8655	*****	826.20	111.320	168.300	71.390
MINIMUM :	1.5	0.0180	*****	5.25	0.870	0.000	0.180
RANGE :	241.5	9.8475	*****	820.95	110.450	168.300	71.210
ARITH. MEAN :	79.4	3.4351	*****	219.51	39.899	25.450	12.742
ARITH. STD. DEV :	43.5	2.0303	*****	163.48	20.504	26.359	10.649
GEOM. MEAN :	65.8	2.7306	*****	166.97	33.971	16.286	9.510
GEOM. STD. DEV. :	2.1	2.4479	*****	2.31	1.996	2.721	2.440
1ST QUARTILE :	46.5	2.1609	*****	119.87	27.420	9.795	7.600
2ND QUARTILE :	73.6	2.8922	*****	172.90	34.700	19.065	10.650
3RD QUARTILE :	108.0	4.0916	*****	271.25	53.265	35.049	15.150
VOL. WGT. MEAN :	*****	3.4292	*****	219.21	39.844	24.576	12.725

	KJELDAHL AS N MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANESE MG/M**2
# OF SAMPLES :	55	53	56	56	57	55	53
MAXIMUM :	247.860	10.725	38.775	29.645	182.250	28.4310	1.6170
MINIMUM :	1.320	0.000	0.000	0.090	0.000	0.0000	0.0150
RANGE :	246.540	10.725	38.775	29.555	182.250	28.4310	1.6020
ARITH. MEAN :	37.618	3.258	3.156	4.775	28.056	1.3802	0.3310
ARITH. STD. DEV :	40.104	2.570	6.144	4.845	29.633	4.1925	0.3804
GEOM. MEAN :	25.958	2.217	1.443	2.976	18.661	0.4605	0.1839
GEOM. STD. DEV. :	2.429	2.772	3.772	3.011	2.452	3.8765	3.1027
1ST QUARTILE :	13.860	0.844	0.262	1.597	10.650	0.1285	0.0715
2ND QUARTILE :	27.630	2.882	1.675	3.570	19.575	0.4555	0.1700
3RD QUARTILE :	45.900	4.857	3.460	6.702	36.562	0.8424	0.4185
VOL. WGT. MEAN :	37.247	3.201	3.152	4.769	28.333	1.3666	0.3262

\*\*\*\*\* : INSUFFICIENT DATA

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : CENTRAL REGION/CUMULATIVE PRECIP.

PERIOD OF REPORT : DEC 31, 84 TO JAN 7,86

PAGE : 2

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	53	52	52	53	52	52	54
MAXIMUM :	0.1331	1.728	20.6307	1.4199	0.054	19.561	0.4437
MINIMUM :	0.0001	0.011	0.2088	0.0139	0.000	0.181	0.0019
RANGE :	0.1329	1.716	20.4219	1.4059	0.053	19.380	0.4418
ARITH. MEAN :	0.0291	0.413	3.8048	0.4707	0.020	4.413	0.0911
ARITH. STD. DEV. :	0.0268	0.331	3.7523	0.2930	0.012	4.269	0.0905
GEOM. MEAN :	0.0194	0.313	2.5026	0.3797	0.016	2.879	0.0602
GEOM. STD. DEV. :	2.9552	2.283	2.5902	2.1122	2.307	2.647	2.6993
1ST QUARTILE :	0.0120	0.224	1.2852	0.2446	0.010	1.469	0.0376
2ND QUARTILE :	0.0238	0.331	2.4066	0.3846	0.019	2.914	0.0648
3RD QUARTILE :	0.0351	0.514	5.8237	0.5814	0.028	5.716	0.1037
VOL. WGT. MEAN :	0.0287	0.405	3.7471	0.4640	0.020	4.346	0.0906

CADMIUM

	MG/M**2
# OF SAMPLES :	52
MAXIMUM :	0.03146
MINIMUM :	0.00030
RANGE :	0.03116
ARITH. MEAN :	0.00698
ARITH. STD. DEV. :	0.00691
GEOM. MEAN :	0.00448
GEOM. STD. DEV. :	2.80517
1ST QUARTILE :	0.00239
2ND QUARTILE :	0.00530
3RD QUARTILE :	0.00778
VOL. WGT. MEAN :	0.00684

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : NORTHEASTERN REGION/CUMULATIVE PRECIP.

PERIOD OF REPORT : JAN 1, 85 TO JAN 2,86

PAGE : 1

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	97	93	0	95	95	93	95
MAXIMUM :	126.9	8.3867	*****	592.83	90.897	54.567	66.510
MINIMUM :	12.0	0.1632	*****	12.72	1.480	0.000	0.000
RANGE :	114.9	8.2235	*****	580.11	89.417	54.567	66.510
ARITH. MEAN :	60.6	2.7223	*****	146.62	25.917	12.566	8.137
ARITH. STD. DEV :	27.0	1.8212	*****	108.26	18.111	11.276	9.595
GEOM. MEAN :	53.8	2.1149	*****	109.60	20.096	8.086	5.242
GEOM. STD. DEV. :	1.7	2.1787	*****	2.28	2.152	2.689	2.565
1ST QUARTILE :	40.0	1.3208	*****	59.25	11.084	4.017	2.730
2ND QUARTILE :	58.0	2.3143	*****	119.43	21.391	7.969	5.925
3RD QUARTILE :	76.5	3.6208	*****	209.56	34.260	16.520	9.430
VOL. WGT. MEAN :	*****	2.6832	*****	147.54	26.079	12.416	8.188

	KJELDAHL AS N MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANSE MG/M**2
# OF SAMPLES :	94	95	92	94	96	94	91
MAXIMUM :	83.840	11.760	13.320	53.650	266.000	4.9500	1.1264
MINIMUM :	1.341	0.000	0.000	0.097	0.000	0.0000	0.0150
RANGE :	82.499	11.760	13.320	53.552	266.000	4.9500	1.1114
ARITH. MEAN :	23.741	2.290	2.246	4.184	19.426	0.6467	0.2148
ARITH. STD. DEV :	19.944	2.206	2.486	7.580	30.188	0.8964	0.2190
GEOM. MEAN :	16.434	1.357	1.262	1.961	9.555	0.3336	0.1329
GEOM. STD. DEV. :	2.522	3.263	3.447	3.512	3.785	3.4367	2.8084
1ST QUARTILE :	8.940	0.611	0.390	0.700	4.447	0.1175	0.0526
2ND QUARTILE :	18.050	1.730	1.715	2.260	11.592	0.3713	0.1560
3RD QUARTILE :	29.625	2.897	3.275	4.359	24.505	0.7039	0.2640
VOL. WGT. MEAN :	23.718	2.285	2.245	4.174	19.430	0.6460	0.2108

\*\*\*\*\* : INSUFFICIENT DATA

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : NORTHEASTERN REGION/CUMULATIVE PRECIP.

PERIOD OF REPORT : JAN 1, 85 TO JAN 2,86

PAGE : 2

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	92	90	89	92	92	90	91
MAXIMUM :	0.2340	1.642	23.9230	1.6617	0.049	17.928	0.5351
MINIMUM :	0.0029	0.033	0.1894	0.0373	0.000	0.274	0.0040
RANGE :	0.2311	1.608	23.7336	1.6245	0.049	17.654	0.5312
ARITH. MEAN :	0.0338	0.385	2.6838	0.3980	0.015	2.715	0.0933
ARITH. STD. DEV :	0.0396	0.337	3.2413	0.3167	0.009	2.571	0.0994
GEOM. MEAN :	0.0211	0.277	1.7758	0.2907	0.014	2.004	0.0599
GEOM. STD. DEV. :	2.6475	2.281	2.4559	2.3301	1.786	2.164	2.6489
1ST QUARTILE :	0.0100	0.150	0.9808	0.1686	0.009	1.218	0.0325
2ND QUARTILE :	0.0206	0.277	1.7959	0.3112	0.013	1.985	0.0608
3RD QUARTILE :	0.0408	0.489	3.1006	0.5082	0.020	3.357	0.1146
VOL. WGT. MEAN :	0.0333	0.377	2.6233	0.3938	0.015	2.665	0.0921

CADMIUM

	MG/M**2
# OF SAMPLES :	92
MAXIMUM :	0.03922
MINIMUM :	0.00035
RANGE :	0.03887
ARITH. MEAN :	0.00650
ARITH. STD. DEV :	0.00672
GEOM. MEAN :	0.00444
GEOM. STD. DEV. :	2.44815
1ST QUARTILE :	0.00269
2ND QUARTILE :	0.00465
3RD QUARTILE :	0.00814
VOL. WGT. MEAN :	0.00641

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : NORTHWESTERN REGION/CUMULATIVE PRECIP.

PERIOD OF REPORT : JAN 2, 85 TO JAN 3,86

PAGE : 1

	PRECIP.	FREE H+	TOTAL H+	SULPHATE	NITRATE	CALCIUM	CHLORIDE
	MM	LAB MG/M**2	TO PH8.3 MG/M**2	MG/M**2	AS N MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	98	96	0	95	95	93	95
MAXIMUM :	396.3	6.2009	*****	342.14	60.084	203.740	95.676
MINIMUM :	5.6	0.0019	*****	6.82	0.000	0.846	0.000
RANGE :	390.7	6.1991	*****	335.32	60.084	202.894	95.676
ARITH. MEAN :	68.9	0.7436	*****	77.08	13.457	17.150	8.772
ARITH. STD. DEV. :	58.3	0.9869	*****	72.42	10.751	24.024	15.257
GEOM. MEAN :	49.2	0.3457	*****	49.51	9.533	10.018	4.551
GEOM. STD. DEV. :	2.4	4.2937	*****	2.71	2.471	2.932	2.626
1ST QUARTILE :	23.3	0.1704	*****	21.67	4.724	5.493	2.168
2ND QUARTILE :	58.0	0.3913	*****	52.25	10.964	11.058	3.705
3RD QUARTILE :	95.1	0.9656	*****	99.16	16.910	18.570	8.319
VOL. WGT. MEAN :	*****	0.7890	*****	80.65	14.081	17.456	9.179

	KJELDAHL	MAGNESIM	POTASSIM	SODIUM	AMMONIUM	PHOSPHOR	MANGANSE
	AS N MG/M**2	MG/M**2	MG/M**2	MG/M**2	AS N MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	93	93	93	93	96	93	87
MAXIMUM :	109.020	31.110	14.030	62.832	69.865	9.8910	5.0020
MINIMUM :	1.264	0.044	0.000	0.337	0.000	0.0340	0.0141
RANGE :	107.756	31.065	14.030	62.495	69.865	9.8570	4.9879
ARITH. MEAN :	22.658	2.682	2.207	6.046	14.583	0.8451	0.3087
ARITH. STD. DEV. :	22.366	3.917	2.563	9.310	16.161	1.4292	0.5961
GEOM. MEAN :	13.288	1.260	1.219	3.469	5.965	0.4482	0.1411
GEOM. STD. DEV. :	3.129	3.848	3.559	2.640	4.956	2.9147	3.4330
1ST QUARTILE :	5.000	0.471	0.504	1.883	1.422	0.2181	0.0456
2ND QUARTILE :	16.390	1.630	1.407	2.957	9.141	0.4252	0.1581
3RD QUARTILE :	30.343	2.939	2.989	5.970	24.409	0.8351	0.3072
VOL. WGT. MEAN :	23.165	2.730	2.246	6.154	15.226	0.8640	0.3014

\*\*\*\*\* : INSUFFICIENT DATA

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION  
(SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : NORTHWESTERN REGION/CUMULATIVE PRECIP.

PERIOD OF REPORT : JAN 2, 85 TO JAN 3,86

PAGE : 2

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	87	87	87	87	87	87	87
MAXIMUM :	0.7621	3.530	47.8606	1.7407	0.171	28.487	1.0620
MINIMUM :	0.0016	0.035	0.2261	0.0230	0.002	0.379	0.0045
RANGE :	0.7605	3.495	47.6345	1.7176	0.169	28.108	1.0574
ARITH. MEAN :	0.0298	0.328	3.9220	0.2730	0.018	3.627	0.0816
ARITH. STD. DEV. :	0.0837	0.473	6.5396	0.2657	0.021	4.828	0.1331
GEOM. MEAN :	0.0134	0.216	2.0729	0.1855	0.012	2.300	0.0453
GEOM. STD. DEV. :	2.9709	2.286	2.9112	2.5149	2.339	2.441	2.7949
1ST QUARTILE :	0.0060	0.135	0.9335	0.1014	0.007	1.217	0.0215
2ND QUARTILE :	0.0118	0.185	2.0577	0.2011	0.013	2.136	0.0393
3RD QUARTILE :	0.0258	0.344	3.6480	0.3470	0.020	3.783	0.0944
VOL. WGT. MEAN :	0.0291	0.320	3.8291	0.2665	0.017	3.541	0.0797

CADMIUM

MG/M\*\*2

# OF SAMPLES :	87
MAXIMUM :	0.18180
MINIMUM :	0.00023
RANGE :	0.18157
ARITH. MEAN :	0.00671
ARITH. STD. DEV. :	0.02071
GEOM. MEAN :	0.00259
GEOM. STD. DEV. :	3.14727
1ST QUARTILE :	0.00114
2ND QUARTILE :	0.00219
3RD QUARTILE :	0.00551
VOL. WGT. MEAN :	0.00656



ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : SOUTHEASTERN REGION/CUMULATIVE PRECIP.

PERIOD OF REPORT : JAN 2, 85 TO DEC 31,85

PAGE : 1

	PRECIP.	FREE H+	TOTAL H+	SULPHATE	NITRATE	CALCIUM	CHLORIDE
	MM	LAB MG/M**2	TO PH8.3 MG/M**2	MG/M**2	AS N MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	52	48	0	50	50	45	49
MAXIMUM :	150.0	7.6929	*****	435.00	58.520	48.150	19.110
MINIMUM :	4.0	0.2249	*****	17.40	2.960	1.820	0.480
RANGE :	146.0	7.4680	*****	417.60	55.560	46.330	18.630
ARITH. MEAN :	60.6	2.8354	*****	162.26	29.823	16.803	7.756
ARITH. STD. DEV :	26.5	1.5770	*****	95.07	11.882	11.430	4.639
GEOM. MEAN :	53.7	2.3610	*****	133.03	26.929	13.006	6.105
GEOM. STD. DEV. :	1.8	1.9762	*****	2.01	1.672	2.194	2.230
1ST QUARTILE :	40.0	1.6044	*****	88.80	22.230	7.775	4.195
2ND QUARTILE :	59.5	2.7858	*****	146.40	27.510	14.820	7.200
3RD QUARTILE :	78.6	3.5403	*****	213.60	36.330	21.440	9.980
VOL. WGT. MEAN :	*****	2.7817	*****	158.95	29.213	16.410	7.654

	KJELDAHL	MAGNESIM	POTASSIM	SODIUM	AMMONIUM	PHOSPHOR	MANGANSE
	AS N MG/M**2	MG/M**2	MG/M**2	MG/M**2	AS N MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	49	45	44	47	49	49	49
MAXIMUM :	69.600	15.500	5.460	18.124	55.680	1.9950	0.8800
MINIMUM :	4.120	0.230	0.000	0.200	2.100	0.0000	0.0200
RANGE :	65.480	15.270	5.460	17.924	53.580	1.9950	0.8600
ARITH. MEAN :	23.518	2.682	1.839	3.348	17.848	0.3138	0.2179
ARITH. STD. DEV :	13.352	2.512	1.526	3.159	11.507	0.3448	0.1939
GEOM. MEAN :	19.799	1.849	1.332	2.286	14.120	0.2009	0.1457
GEOM. STD. DEV. :	1.865	2.562	2.719	2.548	2.103	2.9824	2.5928
1ST QUARTILE :	12.900	0.937	0.531	1.175	9.165	0.1010	0.0686
2ND QUARTILE :	20.220	2.225	1.827	2.334	15.282	0.1922	0.1540
3RD QUARTILE :	32.715	3.300	2.542	4.677	25.805	0.4075	0.3020
VOL. WGT. MEAN :	23.209	2.619	1.773	3.275	17.614	0.3096	0.2107

\*\*\*\*\* : INSUFFICIENT DATA

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION  
(SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : SOUTHEASTERN REGION/CUMULATIVE PRECIP.

PERIOD OF REPORT : JAN 2, 85 TO DEC 31,85

PAGE : 2

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	49	49	49	48	49	48	49
MAXIMUM :	0.1350	1.468	14.1185	1.0495	0.054	12.925	0.4553
MINIMUM :	0.0004	0.038	0.2032	0.0319	0.002	0.227	0.0033
RANGE :	0.1346	1.430	13.9153	1.0176	0.052	12.698	0.4521
ARITH. MEAN :	0.0290	0.351	2.6154	0.3393	0.015	2.778	0.0788
ARITH. STD. DEV :	0.0273	0.268	2.4910	0.2414	0.009	2.272	0.0818
GEOM. MEAN :	0.0182	0.275	1.8671	0.2573	0.013	2.147	0.0501
GEOM. STD. DEV. :	3.0154	2.071	2.3172	2.2696	1.766	2.081	2.8025
1ST QUARTILE :	0.0079	0.182	1.0592	0.1654	0.009	1.368	0.0307
2ND QUARTILE :	0.0210	0.295	2.0006	0.2702	0.013	2.200	0.0513
3RD QUARTILE :	0.0402	0.421	3.0446	0.4532	0.017	3.222	0.0939
VOL. WGT. MEAN :	0.0280	0.339	2.5286	0.3260	0.014	2.662	0.0762

CADMIUM

MG/M\*\*2

# OF SAMPLES :	48
MAXIMUM :	0.02968
MINIMUM :	0.00004
RANGE :	0.02964
ARITH. MEAN :	0.00697
ARITH. STD. DEV :	0.00689
GEOM. MEAN :	0.00401
GEOM. STD. DEV. :	3.52826
1ST QUARTILE :	0.00203
2ND QUARTILE :	0.00540
3RD QUARTILE :	0.00872
VOL. WGT. MEAN :	0.00672

ONTARIO MINISTRY OF THE ENVIRONMENT  
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SOUTHWESTERN REGION/CUMULATIVE PRECIP.

PERIOD OF REPORT : DEC 31, 84 TO DEC 31,85

PAGE : 1

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	112	106	0	108	108	99	107
MAXIMUM :	230.3	20.0643	*****	1427.86	170.422	142.786	126.250
MINIMUM :	9.4	0.0033	*****	24.50	1.750	2.680	1.050
RANGE :	220.9	20.0610	*****	1403.36	168.672	140.106	125.200
ARITH. MEAN :	78.8	4.2921	*****	281.15	44.335	33.010	16.146
ARITH. STD. DEV :	48.0	3.7768	*****	205.68	26.612	22.208	14.766
GEOM. MEAN :	63.8	2.7667	*****	223.78	36.860	26.818	12.410
GEOM. STD. DEV. :	2.0	3.2393	*****	2.03	1.939	1.986	2.070
1ST QUARTILE :	40.5	1.8946	*****	161.52	26.860	17.555	7.185
2ND QUARTILE :	71.0	3.2635	*****	251.55	39.315	28.485	13.315
3RD QUARTILE :	105.0	5.2488	*****	328.72	56.680	43.950	19.015
VOL. WGT. MEAN :	*****	4.2040	*****	280.21	44.188	32.419	15.964

	KJELDAHL AS N MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANSE MG/M**2
# OF SAMPLES :	105	101	98	101	108	104	106
MAXIMUM :	419.146	31.090	44.908	83.750	340.844	32.7026	2.8350
MINIMUM :	5.600	0.350	0.000	0.530	2.100	0.0000	0.0350
RANGE :	413.546	30.740	44.908	83.220	338.744	32.7026	2.8000
ARITH. MEAN :	46.125	6.056	3.619	5.837	35.942	1.1218	0.3458
ARITH. STD. DEV :	44.819	4.299	5.962	8.761	36.102	3.4164	0.3430
GEOM. MEAN :	36.199	5.072	2.162	4.018	27.020	0.4544	0.2496
GEOM. STD. DEV. :	1.976	1.848	2.671	2.227	2.189	3.2679	2.2539
1ST QUARTILE :	24.670	3.799	1.121	2.252	17.685	0.1717	0.1370
2ND QUARTILE :	36.925	5.525	2.450	4.030	29.922	0.4985	0.2675
3RD QUARTILE :	54.300	6.695	3.902	6.802	42.972	0.9280	0.4245
VOL. WGT. MEAN :	44.812	6.026	3.566	5.808	35.702	1.0828	0.3379

\*\*\*\*\* : INSUFFICIENT DATA

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

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SUMMARY STATISTICS OF CALCULATED DEPOSITIONS  
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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STATION NAME : SOUTHWESTERN REGION/CUMULATIVE PRECIP.

PERIOD OF REPORT : DEC 31, 84 TO DEC 31,85

PAGE : 2

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	107	107	104	108	108	103	107
MAXIMUM :	0.5988	3.404	42.4035	1.6328	0.189	25.868	0.8420
MINIMUM :	0.0026	0.130	0.7672	0.0441	0.003	1.194	0.0062
RANGE :	0.5962	3.274	41.6362	1.5886	0.186	24.674	0.8357
ARITH. MEAN :	0.0586	0.641	5.1209	0.4959	0.026	4.733	0.1098
ARITH. STD. DEV :	0.0870	0.513	5.7342	0.3674	0.026	4.123	0.1351
GEOM. MEAN :	0.0298	0.510	3.6224	0.3722	0.019	3.663	0.0709
GEOM. STD. DEV. :	3.1124	1.940	2.1987	2.2239	2.233	1.980	2.5264
1ST QUARTILE :	0.0120	0.316	2.0442	0.2293	0.012	2.137	0.0421
2ND QUARTILE :	0.0280	0.503	3.5835	0.3632	0.021	3.249	0.0734
3RD QUARTILE :	0.0570	0.789	6.3903	0.6889	0.030	5.605	0.1214
VOL. WGT. MEAN :	0.0576	0.636	5.0755	0.4916	0.026	4.658	0.1081

CADMIUM

MG/M\*\*2

# OF SAMPLES :	106
MAXIMUM :	0.21338
MINIMUM :	0.00040
RANGE :	0.21298
ARITH. MEAN :	0.01778
ARITH. STD. DEV :	0.03310
GEOM. MEAN :	0.00769
GEOM. STD. DEV. :	3.33742
1ST QUARTILE :	0.00414
2ND QUARTILE :	0.00720
3RD QUARTILE :	0.01320
VOL. WGT. MEAN :	0.01777

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